

Reopening Plan

August 2021

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Introduction and Overview

Homestead School is a Montessori-based day school serving children ages Preschool through 9th grade. It was established over 40 years ago on an 85-acre homestead and is now a fully developed school campus with four academic buildings for the primary program and a campus in Hurleyville for the secondary program. Homestead School provides child-centered learning with a focus on experiences of environmental stewardship and humanitarian service to all our students.

This document is designed to assist in planning for the safer reopening of Homestead School for the 2021-2022 school year. We recognize the importance of returning students to the school campus for in-person instruction, as well as the overarching need to protect the health and safety of our students, school staff, families, and the broader community. The goal of this document is to offer a plan for and to implement measures to reduce and prevent COVID-19 transmission in the school setting while meeting the physical, emotional, and educational needs of all students.

Early decisions on school closure by public health experts around the country were based heavily on knowledge and experience with influenza, a disease for which school-based transmission is a significant factor in the community-wide spread of disease.

Education, just like healthcare and food provision, is an essential service in our community, and as such, the reopening of school campuses for in-person instruction with strict safety protocols should be prioritized. Disruption of normal childhood social interactions also has a profound adverse impact on a student's social and emotional well-being.

As Homestead School prepares to resume in-person instruction, we are also putting in place a plan for remote instruction for students who may need to isolate or quarantine, as well as students who are medically vulnerable or who have a household member who is medically vulnerable. Homestead School is also prepared for the possibility of partial or full school closure, either short-term or for a longer period.

Section 1: Physical Distancing

1. Social Distancing, Face Covering, and Space Configuration

Homestead School plans a full return of the student body with safety measures, using a cohort model. Homestead School has implemented and will continue to implement a variety of adaptations to meet State and local health requirements for a safe reopening of the school.

Social Distancing

Homestead School faculty, staff, and administration will ensure that appropriate social distancing (minimum of 6 feet in all directions) is maintained between individuals while in school facilities and on school grounds, inclusive of students, faculty, and staff, unless safety or the core activity (e.g., instruction, moving equipment, traveling in common areas) requires a shorter distance or individuals are of the same household.

Cohorts:

Homestead is using a cohort model, with 8 cohorts on the Glen Spey campus, each comprising a class ranging from 16 to 28 students. The Hurleyville campus will have 1 cohort of approximately 40 students. Within each cohort, there are subgroups, and at least two teachers, so cohorts can be split up and spread between the classroom and the outdoors on campus, thereby potentially decreasing populations by 50% for each cohort indoors. Each cohort will have its own locker area and classroom, a specified entrance/exit to their building, and will always have its own designated outdoor play area for arrival, recess, and dismissal. This play area will be rotated weekly or biweekly so all students experience each of our designated outdoor play areas. The 2 upper elementary cohorts on the Glen Spey campus will come together for regular group lessons, recess, and group projects, but will have separate lockers, bathrooms, and lessons in separate classrooms much of the time.

Essentially, we have created an arrival, school day, and dismissal system that separates each cohort at all times, except when getting on or off a school bus while allowing older students, who have a stronger inclination toward social learning and who also can understand and implement safety protocol, to come together for social learning activities.

Social Distancing for Certain Activities:

Homestead School does not have gym class but will maintain a distance of 12 feet in all directions when offering aerobic activities. Homestead School is also modifying its Music Program to provide minimal, if any singing activities, shifting focus to music appreciation, instrument usage other than wind instruments, and will ensure that all students, staff, and faculty uphold the 12 feet radius protocol when participating in activities involving projecting the voice or using wind instruments.

Face Coverings

Homestead School will require all faculty, staff, and students to have an acceptable face-covering around the neck at all times. If students do not have their own acceptable face coverings, Homestead School will provide such at no cost to the student or family. Homestead School will have an adequate supply of face coverings, masks, and other required PPE on hand should a student, faculty, or staff need a replacement. These items will be kept with administration to be distributed as needed.

With few exceptions, Homestead School will require that all faculty, staff, and students wear a mask at all times while arriving and departing from school, while in any indoor area, and when unable to maintain a 6-foot distance while outdoors on the campus. Homestead School intends to have mask use be the required practice at this school when indoors, for all grades, even when social distancing can be maintained indoors.

Staff and students will be allowed to remove face coverings when outdoors only when the activity can strictly guarantee that appropriate social distancing will be maintained, such as, for example, a meeting circle where students are seated far apart for the duration of that activity. Free flow physical education activities outdoors and group activities outdoors where the students may come into close contact with each other will require the use of masks.

Homestead faculty and staff have created classroom schedules that will allow for regular “mask-free breaks” and have created spaces in their classrooms where classroom members can take their masks down while safely distanced for a mask-free break. To facilitate this scheduling, each classroom cohort at Homestead School has direct access to the outdoors which will allow an individual to go outside for a supervised mask-free break whenever needed beyond the regularly scheduled group mask-free breaks. Finally, to benefit from the added safety of the outdoors, Homestead teachers at each level are planning a curriculum with an even greater focus on outdoor educational activities, as well as conducting regular academic lessons in the open air of the campus.

Homestead School staff will not exclude students from the campus community if they occasionally fail to wear a face covering. In such cases, gentle correction will be applied. We realize this difficulty may be more prevalent in the early childhood cohorts, and we will be working with those students to make the wearing of masks a consistent practice. The small increase in risk of disease transmission does not justify the suspension of any student’s on-campus privileges.

Students who are unable to medically tolerate a face covering, including students where such covering would impair their physical health or mental health, are not subject to the required use of a face covering and modifications will be made. Any student having extraordinary difficulty tolerating the wearing of face coverings will be designated as one of those for whom very regular “mask-free breaks” will be accorded by the support staff in attendance. Though limited, modifications may be made for these particular students to whatever extent feasible, such as the creation of an alternative learning space and/or the use of distance learning video presentations on campus from one location to the other.

Homestead School staff will participate in onsite training August 30th, September 1st, 2nd, and 3rd (before school begins) on how to support students in adapting to wearing a face covering. Training will include language of empathy, helping the student feel comfortable during the time that face covering is mandatory and informing the person about when the next face-covering break will occur, and how to gauge whether an immediate break is in the best interest of the person having difficulty.

In this same training, Homestead School administration will train faculty and staff on how to appropriately put on, take off, clean (as applicable), and discard PPE such as face coverings, gloves, gowns, and face shields. Homestead School has gloves, gowns, and face shields available in addition to cloth face coverings and surgical masks that all staff will be trained in adequately using. The Homestead administrator in charge of maintenance will supply any contractor with appropriate PPE as needed and will train them on adequate usage if needed.

Finally, in this training, Homestead School administration will train staff on the heightened hygiene protocol the school will follow, from more regular handwashing lessons and opportunities for students to extra cleaning of doorknobs, bathrooms, etc. during the day.

Space Configurations

Homestead School has classrooms that can accommodate each cohort while easily observing the appropriate social distancing mandates. (See Appendix 1.)

Cohort sizes were created to be small enough to meet social distancing requirements in each specific classroom. All staff will mark classroom seating to ensure 6 feet of distance between students, and maintain 6 feet from students while giving lessons to prevent adult to child disease transmission. Teacher tables will be placed at least 6 feet from student tables.

Homestead School has dismantled all communal locker areas and moved lockers into each classroom to maintain the integrity of our cohort configurations. Furthermore, Homestead School is suspending the use of the faculty lunchroom. There are no indoor gathering areas for the school on campus. There is one limited use faculty room in the Upper Elementary space with ample social distancing between the teacher tables. The Hurleyville Campus teaching team is part of the same cohort and will use its staff planning area as a cohort. School gatherings will be planned outdoors as much as possible for the 2021-2022 school year, and any indoor gatherings will be small, with mask and distancing requirements.

Homestead School is using a cohort model for student groupings. Staff within each cohort will be required to clean tables and bathrooms midday, then again along with shelves, and any shared items, at the end of the day or before student arrival, and additionally during the classroom work cycle as needed. All students are being asked to bring personal items such as a water bottle, a student supply case with pencils, rulers, scissors, and glue to avoid sharing communal materials. As well, on an individual basis, students are being issued core classroom academic materials to reduce the amount of items being shared.

Early Childhood and Lower Elementary Programs: Homestead School has prioritized cohort stability (no intermingling between cohorts.) Classrooms will have social distance seating markers, and each child will have a mask ready and will be asked to keep it on while indoors. However, given the social and educational needs of this age group, physical distancing or face coverings may be difficult and sometimes inappropriate to enforce. Therefore, strict maintenance of a stable classroom cohort, which minimizes the total number of contacts, is the primary mechanism of risk reduction.

Upper Elementary: Homestead School has prioritized social distancing, and face-covering with regular breaks, and maximizing the use of personal items in the classroom. Teachers will rotate to cohorts or teach remotely to ensure the varied expertise offered to students, but given this age group's developmental abilities and needs, the two Upper Elementary cohorts will be allowed to intermingle indoors and outdoors while maintaining social distancing.

Access to Each Cohort Class Area will be through an exterior door dedicated exclusively to that cohort (with the exception of three cohorts sharing one door in the Early Childhood building) thereby taking away the need to form lines in an interior hallway. Cohort lockers are located near these exterior doors and egress will be staggered and masks will be required when in locker and hallway areas. The exception to this access arrangement will be in the Early Childhood Building where three cohorts will be sharing one exterior entrance. However, each of these three cohorts splits off toward its own classroom immediately after the door and will follow a schedule of staggered entry and exit to take away the need for "lining up", thereby maintaining the distancing protocols.

The Homestead School Glen Spey campus does not have large hallways, or a large student population, or a schedule that would necessitate unidirectional flow. Nor do students ever need to cluster or form a line indoors because there is a door to each classroom and the locker area is located by the door.

Homestead School Administration will post signage and distance markers denoting spaces of six feet in front of bathrooms and in classrooms as appropriate to classroom configuration. Homestead School will also post signage and distance markers in our health screening areas that are not outdoors.

Buildings on Homestead School's campuses are not open to the public and are for student, faculty, and staff use only. Homestead only has staff on campus that are necessary and has ample space for its faculty and staff to implement proper social distancing.

Our campus of 85 acres and its facilities are spacious enough, and with the availability of a windproof and waterproof outdoor shelter for each cohort within a short walking distance, Homestead School does not have a need to utilize other alternative spaces beyond the campus to accommodate appropriate social distancing during in-person learning.

HURLEYVILLE CAMPUS:

The Homestead School Hurleyville campus has multiple classrooms totaling roughly 10,000 square feet of instructional space and can easily accommodate the cohort while easily observing the appropriate social distancing mandates. (See Appendix 1)

The secondary program will be one cohort of approximately 40 students and 9 staff. This cohort will have a designated space with lockers and bathrooms with separate stalls and multiple sinks in each bathroom.

Students of secondary school age can understand and apply hygiene protocol, therefore the main factor in the prevention of spread will be working with students to maintain hygiene and distance. All students and staff will be masked when indoors unless taking a mask-free break in a designated area.

2. Schedules and Signage

Schedules

Arrival will be from 8 am - 9 am and dismissal will be from 2:30 pm - 3:15 pm on the Glen Spey campus and from 8:30 am - 8:45 am and 4:00 pm - 4:15 pm on the Hurleyville campus. This will allow for staggered arrival and dismissal on the Glen Spey campus, while reducing the number of students arriving and departing daily as the 7 and 8th grades have been reassigned to the Hurleyville campus. Families are asked to perform a home health screening and report to the school through PikMyKid daily before a child begins their commute to school. Cars will be parked, parents will be asked to remain at their cars, and staff will be there to greet the children and walk them to the appropriate arrival location. Students arriving by bus will be greeted and sent to their arrival location as well. Because we are

following a cohort system, each cohort has a locker area in their classroom and personal items are stored there. For upper elementary students who have textbooks and notebooks, children have personal cubbies in their classroom.

Signage

Homestead School administration will print and post the appropriate posters given by CDC, DOH, and school districts in each classroom, bathroom, and in hallways and near entries/exits. (See Appendix 2.)

3. Limiting Gatherings, Ventilation, Movement and Commerce

Limiting Gatherings

Transportation:

Homestead School does not provide transportation, but receives students from various districts who are creating their own protocols consistent with state-issued guidance. All students who arrive and/or leave in cars will be escorted to and from their cars by Homestead staff. All students who arrive and/or leave in buses will be escorted to and from their buses by Homestead staff.

Meals:

Homestead School does not have a cafeteria and has suspended use of the staff lunchroom. All students previously have eaten in their classrooms or outdoors on campus and will continue to do so (in their cohort) while maintaining 6 feet separation while consuming their meals. All teachers will now eat with their classes with appropriate social distancing. Homestead School does not provide food for individuals. Students, faculty, and staff bring their own lunch and will be asked to bring their own snack in order to decrease communal situations and sharing of items. To ensure each student's safety, at the September Staff Inservice, Homestead School staff will be provided with a food allergy list of all students in the school to keep in a place that teachers can easily refer to in the classroom while maintaining confidentiality. This has been a practice at Homestead for years and will continue to be as students eat under the supervision of their teachers.

Homestead Staff will be trained in proper hand washing techniques and will teach students to wash their hands for at least 20 seconds and rinsing with warm water before and after eating. Posters will be displayed by each sink as a reminder, and staff will ensure that each member of their cohort is following this policy. In the first days of reopening, staff will also discuss with students how sharing of food and beverages promotes spread of germs, and will monitor the students to prevent the sharing of food or beverage.

Extracurriculars:

Homestead School will offer extracurricular (after school sport or group) activities in the 2021-2022 academic year, following CDC and NYS guidance.

Before and Aftercare:

Homestead School does not provide before or aftercare.

Small Spaces:

The only small spaces on Homestead's Campuses are the two copy rooms on the Glen Spey campus. All students, faculty, and staff will be required to wear appropriate face coverings while in these spaces unless by themselves, and will need their face coverings available if another person were to enter.

Faculty and Staff Meetings:

Staff meetings will be video meetings, outdoors, in the open air barn with appropriate social distancing and ventilation, or masked with distancing when indoors. Staff will be asked to consider the comfort level of each participant in the meeting and will implement the additional precaution of using a face covering as deemed necessary in that regard.

Ventilation

Direct Ventilation

Homestead school has always used open windows for ventilation and will continue to do so. Administration will inform staff to further ventilate with open doors as much as possible, while maintaining health and safety protocols.

Heating Systems and Ventilation:

Many of the buildings have radiant floor heating. Those buildings which have forced air oil-fired furnaces will have the furnace air return grill blocked so that interior air is not recirculated. Each furnace room has access to outdoor air for the safe and appropriate operation of each furnace unit. As an extra measure, all forced air, oil-fired furnaces will be equipped with MERV 13 filters.

Air Purifying Units:

Each classroom is outfitted with an air purifying system (or multiple units depending on square footage and classroom configuration) that employs bi-polar ionization and UVC light, both highly effective in breaking down and destroying viruses. (See Appendix 3.) Homestead staff will clean and disinfect their rooms as they set up their classroom environment according to social distancing protocols.

Common Areas:

Homestead School has no elevators, waiting rooms, breakrooms, vending machines, etc. but will keep an alcohol based or hypochlorous acid sanitizer with the teacher closest to the entrance of every building as well as in the administrative office and at each health screening station. All bathrooms at Homestead Glen Spey are one-person bathrooms with the exception of one bathroom with three stalls in the early childhood cohort. Staff will monitor bathroom areas and Homestead administration will post spacing reminders and floor markings to maintain social distancing while in queue for a bathroom.

Bathrooms at Homestead Hurleyville are 3 stall bathrooms with multiple touchless sinks, and individual paper towel dispensers. Students will be taught the importance of and encouraged to practice proper handwashing hygiene before leaving the bathroom.

Movement and Commerce

Student Drop-Off and Pick-Up:

Homestead School Glen Spey will stagger arrival over 45 minutes and has 3 parking lots that it will staff with individuals who can greet and guide students to their appropriate health stations upon arrival and then back to their car/bus at dismissal time. Homestead School Hurleyville will have one parking lot where arrival and dismissal happen.

Families will be informed ahead of time that the expectation is that parents stay with their vehicle and staff will support the students' transition to and from the vehicle. At dismissal, each individual will be with their cohort in its own designated play area outdoors until it is time for his or her dismissal. On days that students cannot be in designated play areas due to weather conditions or other unforeseen circumstances, cohorts will remain in their classrooms until their transportation has arrived, at which point each student will go directly to his or her car or bus. Homestead Hurleyville students will dismiss from their gathering area to go directly to their car or bus upon its arrival.

Deliveries:

Deliveries and pickups all happen outdoors, in the parking lot, and any individuals unfamiliar with the school and our system will be greeted in the parking lot by a member of the administrative team, thereby limiting contact to the highest extent possible.

Faculty/Staff Entrances and Exits:

Glen Spey Campus: Entry and exit of faculty and staff is based on the building they work in. Each classroom has its own entrance, with only three of our classes/cohorts sharing a door. (See [Access to Each Cohort Class Area](#) above for an explanation of the appropriate resolution of this exception.) After entering that door, each of these three cohorts sharing a door separates into its own locker area within their classrooms. Again, bi-directional flow and congregation is limited by use of multiple entries and staggered entry and exit schedules for Building #1 which is the only building in which cohorts share a door.

Hurleyville Campus: There is only one cohort at this site, so there are no concerns about cohort cross contamination.

Section 2: Operational Activity

1. Cohorts

Homestead is using a cohort model, with 9 cohorts on the Glen Spey campus and 1 on the Hurleyville campus, each comprising a class ranging from 12 to 28 students. The Hurleyville campus cohort is approximately 40 students in a building with classrooms and gathering spaces large enough to provide ample social distancing. Within each cohort, there are subgroups, and at least two teachers, so cohorts can be split up and spread between the classroom and the outdoors on campus, thereby potentially decreasing populations by 50% for each cohort indoors. Each cohort will have its own locker area and classroom, a specified entrance/exit to their building, and will always have its own designated outdoor play area for arrival, recess, and dismissal. This play area will be rotated weekly or biweekly so all students experience each of our designated outdoor play areas. The two upper elementary cohorts may intermingle with proper distancing during recess times on the largest of recess areas. All recess areas are outdoors, excluding the barn, which is well ventilated with open eaves and a 12 foot by 8 foot door.

Essentially, we have created an arrival, schoolday, and dismissal system that separates each cohort at all times, except when getting on or off a school bus. The school is staffed so that teachers will stay with and instruct their own cohorts. The two upper elementary cohorts will have teachers teach lessons across cohorts but via video lessons or with adequate social distancing with masks on.

2. Personal Items and Shared Objects

Families will be asked to provide their child with a school supply case with writing utensils, erasers, scissors, glue, and ruler. Each individual will have their own cubby, and locker for personal items. We are also recommending that each child grades 7-9 have their own laptop and notebooks in addition to the supplies listed above. Homestead School will provide these supplies to students whose families are unable to provide these items.

Homestead School will minimize the number of conference tables and desks in each classroom. In classrooms where such furniture is in use, staff will be trained to ensure that students use proper hand hygiene.

Homestead School is purchasing enough variety and quantity of musical instruments for each individual in each cohort to have their own instrument, not to be reused by anyone until it has been thoroughly sanitized. For example, on a given day, one cohort will receive instruction with the bells while the next receives instruction with rhythm sticks, and the next with the drums, etc., ensuring that materials are not reused before enough time is allotted for thorough cleaning and instruments have sat at least overnight.

3. Remote Learning Preparation

Homestead School is preparing for comprehensive in-person instruction as well as for online instruction, if needed due to quarantine or other extenuating circumstances. While as educators we feel

that it is in the best interest of our students to return to campus for in-person instruction, we understand that students or families may have medical reasons that make in-person learning too great a risk. As feasible, we will adopt an online learning approach that takes into account the number of available staff at each learning level and within each classroom as well as the number of students that are in need of online instruction.

This remote learning component will allow us to ensure continued instruction for all of our students. Remote learning will be made available if a student, cohort, or the entire school needs to be in quarantine.

The online component at each level consists of:

- schedule for the student to follow
- take home packet of papers corresponding to the curriculum being offered
- take home set of materials that the students will need to complete their academic work
- scheduled online conferencing lessons and socialization via Google Meet or Zoom
- a Google Classroom through which:
 - attendance will be taken
 - video lessons will be presented
 - links to required and/or optional follow up work will be posted
 - Google Meet learning sessions can easily be joined based on a students daily schedule

Depending on the age level, Homestead's Online Task Force is creating an appropriate daily program which would be a combination of pre-recorded video lessons, large group video conference lessons, and individual or small group video conference lessons. Younger students and emerging readers will be receiving small group or individual instruction to continue their progress with acquiring essential skills, but each student at Homestead will have regular 1:1 video conferences with their advisor (one member of their classroom teaching team.)

Homestead School's Academic Support Team will continue to provide students who require additional support with both individual and small group instruction via video conferencing. Homestead does not have any students enrolled who are English language learners who will need additional support.

Homestead School will temporarily close the classroom where an individual has tested positive for COVID-19 and switch to remote learning for a minimum of 10 days. (See Section 4: Cohort and School Closure Metrics.)

If in-person instruction is not possible for any cohort/class, or the entire school, Homestead School has designated an Online Task Force which is actively creating and updating a plan with all the elements necessary (online infrastructure, student schedule, teacher schedule, teaching materials, student take home materials, and parent/legal guardian information and support system). With this task force's efforts, Homestead School will, at all times, be prepared two weeks in advance to switch immediately from in-person learning to remote learning with their teachers.

Homestead School administration has purchased the necessary equipment to facilitate high quality online instruction. Equipment being made available to each classroom include laptop stands, tablet and

phone tripods, digital document cameras, microphones, lighting, and laptops and tablets as needed. The Homestead School has a business class high speed fiber optic internet that will ensure the consistent bandwidth needed for streaming video. As mentioned above the school is manufacturing and purchasing the needed Montessori materials to equip students with manipulatives to take home in the case that online learning is necessitated.

Development of Homestead's remote learning model has been established so that whether delivered in-person, remotely, or through a hybrid model due to a local or state school closure, there are clear opportunities for instruction that are accessible to our students. Assistance with technology acquisitions and usage will be available to families. Jack Comstock, Director of the Hurleyville campus and Joel Wilkinson, Technology Director of the Glen Spey campus, are the contacts for technological questions or concerns.

Section 3: Restart Operations

1. Overview

Homestead School will reopen to students on September 8, 2021. In preparation for safe reopening, each classroom has been outfitted with an air purifying system (or multiple units depending on square footage and classroom configuration) that employs bi-polar ionization and UVC light, both highly effective in breaking down and destroying viruses. (See Appendix 3.) In addition, Homestead staff will clean and disinfect their rooms as they set up their classroom environment according to social distancing protocols.

For periodic room disinfection, for emergency situations, and for help with any necessary deep cleaning, Homestead School has also purchased a backpack atomizer which sprays a non-toxic and CDC recommended, EPA approved-for-COVID-19 disinfectant ([List N: Disinfectants for Use Against SARS-CoV-2 \(COVID-19\) | US EPA](#)) called hypochlorous acid. This disinfectant is highly active against all bacterial, viral, and fungal human pathogens. (See Appendix 4.)

Proper ventilation is already in place since Homestead School has many windows in each classroom and will utilize them for maximal air flow.

Water tests have also been continuous since the closure of schools, and because staff are coming into their classrooms all summer sporadically, all plumbing is in continual use.

Homestead School will conduct its scheduled Fire, Evacuation, and Lockdown Drills as usual in the first weeks of the school year.

2. Appropriate PPE, Replacement Items, and Face Covering Hygiene

Per the NYSDOH Guidance, p. 2, acceptable face coverings include but are not limited to cloth-based face coverings (e.g. homemade sewn, quick cut, bandana) and surgical masks that cover both the mouth and nose.

Homestead School will have an adequate supply of face coverings, masks, and other required PPE on hand should faculty or staff need a replacement, or a student be in need. Items will be kept with administration to be distributed as needed.

Homestead School will advise students, faculty, staff, and visitors that they are required to wear face coverings in common areas or situations where social distancing may be difficult to maintain, such as entering/exiting classrooms, in locker areas, walking in hallways, and traveling around school buildings. Homestead School staff will teach students how to properly wear a face covering and provide opportunities to do that in the classroom, even when appropriate social distancing is being maintained, to further lessen the spread of germs.

Homestead School will allow students, faculty, and staff to use their own acceptable face coverings, but will supply acceptable face coverings to those who wish to obtain it from the school. Homestead School administration may require employees to wear more protective PPE such as gloves, gowns, or face shields, due to the nature of their work, such as supporting a sick child or a child with soiled clothing in getting cleaned up. Homestead will comply with all applicable OSHA standards in these situations.

Homestead School will request that students bring their own face coverings, but will provide such coverings to any students who do not have their own, at no cost to the students. Students and parents/legal guardians are responsible for the hygiene of the face coverings.

Homestead School has already communicated with families about the importance of mask hygiene. A letter has already been sent informing families that at least 2 face coverings are necessary, and face coverings should be cleaned or replaced after use and must not be shared.

3. Hygiene, Cleaning, and Disinfection

Homestead School will adhere to and promote hygiene, cleaning, and disinfection guidance set forth by DOH and the Centers for Disease Control and Prevention (CDC). Administration will train all students, faculty, and staff on proper hand and respiratory hygiene during staff inservice days scheduled before reopening and then staff will teach students throughout the first weeks of school and offer reinstruction as needed throughout the year. The Inservice Training will be in part to review the "Interim Cleaning and Disinfection for Primary and Secondary Schools for COVID-19." (See Appendix 5.)

Hygiene

Homestead School will send home the “Proper Hand and Respiratory Hygiene” sheet (see Appendix 6) along with face covering guidance, and recommendations on how to support their child in practicing the necessary hygiene skills at home.

Homestead School administration and staff will provide and maintain hand hygiene stations around the school, as follows:

- For hand washing, each classroom/cohort has access to a bathroom with soap, running warm water, and disposable paper towels.
- For hand sanitizing, each classroom is supplied with hypochlorous acid hand sanitizer, as well as alcohol-based hand sanitizer containing at least 60% alcohol for areas when handwashing facilities may not be available or practical. Hand sanitizers will also be available for staff to use and administer in key areas on campus such as the barn, and each class will have an “outdoor kit” to make sanitizer available when cohorts are learning outdoors.

The use of hypochlorous acid hand sanitizer will be the preferred sanitizer given its effectiveness in inactivating viruses and its non-toxicity. (See webpage [Hypochlorous Acid: A Review](#).) The use of alcohol-based hand sanitizers will always be supervised by adults to minimize accidental ingestion and promote safe usage. Parents/guardians can inform the school that they do not want their child to use alcohol-based hand sanitizers by sending a written notice to the school.

Homestead School will provide accommodation for students who cannot use hand sanitizer, to allow for their use of handwashing stations. Hand sanitizer is available throughout common areas such as at building and classroom entrances and exits.

Homestead Administration will place signage near hand sanitizer stations indicating that visibly soiled hands should be washed with soap and water.

Homestead School Administration has placed receptacles around the school for disposal of soiled items, including paper towels and PPE.

Cleaning and Disinfection

At Homestead School Glen Spey, each classroom team is responsible for the cleaning and disinfecting of their rooms. Homestead School administration will provide each classroom team with all the necessary cleaning and disinfecting supplies needed, and will advise staff to have proper ventilation when disinfecting by opening windows and doors to the outside when possible. Homestead School administration chose cleaning products approved for use against COVID-19 on the Environmental Protection Agency (EPA) approved list “N” and will follow product instructions. We also chose the asthma-safer disinfectant hypochlorous acid. (See webpage [Safer Disinfecting Products / COVID-19: Safely Clean & Disinfect / Cleaning Laboratory / Our Work / TURI - TURI](#).) To clean commonly used surfaces (e.g., keyboards, desks, remote controls), cleaning cloths and hypochlorous acid will be provided to staff. In addition, Homestead will provide Clorox Disinfecting Wipes or other approved

disposable wipes to use as needed. Homestead School Hurleyville staff will clean communal surfaces midday and janitorial staff will clean the entire facility daily.

To reduce high-touch surfaces, Homestead School Glen Spey has installed touch-free amenities, such as trash receptacles, soap dispensers, and paper towel dispensers. Homestead School Hurleyville has touchless trash cans, soap dispensers, and sinks and has single use paper towel dispensers. Homestead School will also close all water drinking fountains and encourage students, faculty, and staff to bring their own clearly labeled water bottles.

Classrooms and all items/equipment will be cleaned twice daily. Bathrooms will be cleaned and sanitized twice daily in accordance to the guidance given in Appendix 5. Students, faculty, and staff will be encouraged to wash hands or sanitize before and after use of any shared items. Staff will maintain logs that include the date, time, and scope of cleaning and disinfection. (See Appendix 7.) Appropriate signage will be put in each bathroom and classroom to promote hygiene. (See Appendix 2.)

Materials and tools used by employees will be regularly cleaned as part of the classroom cleaning checklist using registered disinfectants.

Bathrooms at Homestead School Glen Spey are all single toilet bathrooms, like in a home, with the exception of the bathroom for the youngest students of the school, which has three stalls separated by physical barriers. Homestead School Hurleyville has 2 bathrooms with 3 stalls in each along with multiple touchless sinks. Homestead School has installed touch free paper towel dispensers in each bathroom as well as touch free soap dispensers.

Cleaning and Disinfection Following Suspected or Confirmed COVID-19 Case:

Homestead School administration and maintenance will provide for the cleaning and disinfection of exposed areas in the event an individual is confirmed to have COVID-19, with such cleaning and disinfection to include, at a minimum, all heavy transit areas and high-touch surfaces in addition to the specific classroom with the confirmed case. Homestead administration and maintenance has read and will follow CDC guidelines on "Cleaning and Disinfecting Your Facility." (See Appendix 8.)

If someone is suspected or confirmed to have COVID-19, Homestead School administration will:

- Immediately close off areas used by the person who is suspected or confirmed to have COVID-19.
- Open outside doors and windows, if not already open, to increase air circulation in the area.
- Wait 24 hours before we clean and disinfect.
- Clean and disinfect all areas used by the person suspected or confirmed to have COVID-19, such as offices, classrooms, bathrooms, lockers, and common areas.
- Once the area has been appropriately cleaned and disinfected, it will be reopened for use.

Individuals without close or proximate contact with the person suspected or confirmed to have COVID-19 can return to the area and resume school activities after cleaning and disinfection protocol has been completed.

Homestead administration has read and will apply DOH's "Interim Guidance for Public and Private Employees Returning Work Following COVID-19 Infection or Exposure" for information on "close and proximate" contacts.

If more than seven days have passed since the person who is suspected or confirmed to have COVID-19 visited or used the facility, additional cleaning and disinfection is not necessary, but routine cleaning and disinfection should continue.

4. Mental Health, Behavioral and Emotional Support

Academic learning cannot be effective until the basic human needs for physical and emotional safety are met. A commitment to social emotional well-being in supporting this transition back to school does not happen at the expense of academics, it creates the mental, social, and emotional space necessary for academic learning to occur.

Students may return to instruction anxious, fearful, withdrawn, grieving, and/or unprepared to self-manage their behaviors. Homestead faculty and staff will be prepared to meet students where they are, regardless of the circumstances in which they find themselves.

Homestead School has established following teams, to meet the social and emotional needs of the students in our school:

1. Homestead School has a student to teacher ratio of 8:1 or less, and, inherent in the Montessori method is the importance of observation of each individual's social, emotional, academic, and personal growth. Therefore, every faculty and staff member is trained and practiced on how to support a student's well being.
2. We have an Advisory Council/Student Support Team composed of 3 staff members with over 75 years of experience teaching Homestead students between them, and we have added 2 community members to the team: one who has completed Yoga and Mindfulness Teacher Training and Building Children's Social-Emotional Skills and one who is a licensed Mental Health Counselor. This team will collaborate with class teachers on how to handle significant behavior or emotional issues as well as how to implement daily and weekly learning opportunities in resilience and well-being.

Homestead School has established the following plan which consists of training all staff to be observers. The school has established a system of regular communication within classroom teams, across teaching teams at the same level, with Student Support Services, and with administration as needed. This plan will be reviewed and updated by our Student Support Services and administrative teams as needed.

1) Staff Training

- Each classroom has 2-3 staff making observations daily on students academic, social, and emotional progress.

- Training on inservice days will communicate social emotional well-being and learning as a priority and engage members of the school community in implementation efforts. We will allot 3 sessions to supporting student transition onto campus and monitoring/ supporting each student's social and emotional well-being. Refresher sessions on this will continue throughout the year. We will train teachers and open a discussion on how to calmly uphold hygiene and social distancing protocol, how to listen and dialogue with students about struggles with the "new norms".
- Each classroom will create a "peace corner" for individuals to turn to when feeling anxious.
- Student Support Services will seek out professional development opportunities for faculty and staff on how to talk with and support students for developing coping and resilience skills for students, as well as for faculty and staff.

2) Communication System

- Weekly meetings happen within each teaching team to discuss each child, and regularly across teaching teams at the same developmental level, to develop action plans to support individuals with emotional needs.
- The Head of Student Support Services will meet weekly with teaching teams to address any concerns faculty may have. That information will be carried back to the Advisory Council and recommendations will be made. Administration meets with the Head of Support Services weekly to offer necessary support for implementation of plans.
- Multi-Tiered Support System- Homestead has a multi-tiered System of Support that is laid out in the Academic Services section of the Family Handbook. Once student needs are broadly and individually identified, tier 1, 2 and 3 activities and services can be developed or adopted to address those needs.

Support for Vulnerable Populations: For students, faculty and staff who are at increased risk for severe COVID-19 illness, and individuals who may not feel comfortable returning to an in-person educational environment, Homestead School will, to the extent possible, offer positions or learning situations to accommodate the specific circumstance. Options are increased social distancing and/or outdoor learning options, additional PPE provided by the family or the school, a hybrid of in-person and online instruction, or remote instruction. Homestead School will modify social distancing for the youngest students, students receiving language services, or students with hearing impairment or loss by allowing closer proximity as needed, with appropriate face coverings, or transitioning to an open air learning environment.

Section 4: COVID Monitoring, Containment, & Closure Protocol

1. General

Homestead School has been in communication with its staff and families about reopening since June 2020. Regular emails have been sent via our communications database (TADS Educate), informing families of the measures we intend to implement.

Our reopening plan is posted on the school's website. This plan was made in consultation with a task force of staff members, administration, school parents, local EMT, Fire Dept officials, and local public school administrators. We will continue to use our communications database to send regular emails, updates, and a PDF of this plan to each faculty, staff, and family of our students. Homestead School also has two social media venues through which we guide families to our website and will post updates and necessary information on these sites. Homestead School does not have any families that require multiple language communications, so all of our communication will be in English only.

Homestead School's Head of School has reached out to staff and families with reopening ideas and has asked each time for insight and feedback on the ideas presented. Homestead Administration has been in touch with the Superintendent of Sullivan County BOCES, Robert Dufour, as we have been developing our protocols, and Homestead's Head of School will meet with Superintendent of Schools, John Mogano, of Eldred Central School District in which the Homestead School is located.

Homestead School administration is planning a staff inservice August 30, 31, September 1, and 2, 2021, devoted to COVID protocol, preparation, hygiene, and safety, including how to teach the aforementioned to students at each age level and monitor compliance with the safety protocols including but not limited to hand hygiene, proper face covering wearing, social distancing, and respiratory hygiene (see Appendix 2 and 9 for mask wearing guidance.)

Homestead School Administration will print and post the posters given by CDC, DOH, and school districts in each classroom, staff bathroom, and in each classroom's bathroom. (See Appendix 2.)

Director of Glen Spey campus, Nisha Gupta is the coordinator and the main contact upon the identification of positive COVID-19 cases and will be responsible for subsequent communication. Nisha Gupta is already and will continue to be responsible for answering questions from students, faculty, staff, and parents or legal guardians of students regarding the COVID-19 public health emergency and plans implemented by the school. She will be responsible for receiving and attesting to having reviewed all screening activities, and is the contact for individuals to inform if they later experience COVID-19-related symptoms or COVID-19 exposure, as noted on the "Regular Health Status Survey." (See Appendix 10.) She will work closely with local health departments and other schools to monitor public health conditions and jointly develop monitoring strategies.

2. Monitoring of Health Conditions

Monitoring includes protocols and procedures to track health conditions at school. At a minimum, our plans will incorporate the following:

Screening at Home

It is of utmost importance that families and the school work in close contact to maintain a safe campus. Families/legal guardians who know their children best are the most qualified to determine whether the symptoms experienced by their children are potentially COVID-19 or are simply allergies or other common childhood illnesses. We will request that before leaving for school, families/legal guardians perform a temperature check and complete the "Daily Home Screening for Students." Information on

how to submit the survey to the school will be communicated to families at least 14 days prior to reopening along with a contact person for technical issues. Homestead School will use the PikMyKid app for the daily health check-in process.

If the student, parent, or caregiver answers YES to any question, the student would be excused from school in accordance with the existing School Illness Management Policy and asked to contact Homestead administration to determine if quarantine is needed, or if an evaluation by their healthcare provider and possible testing is in order.

(See Chart 1 below under Section 4: Containment.)

Screening at School

Upon arrival on campus, students, faculty, and staff will be asked to sanitize or wash their hands. Faculty and staff will also complete the daily health status survey, before arrival. Visitors will be limited to essential visits only, such as maintenance. Any visitors will have the same screening and survey procedures as faculty and staff. This will be conducted in Building #1's foyer by administrative staff on the Glen Spey campus and in the main entry on the Hurleyville campus.

All personnel performing in-person screening activities, including temperature checks, will be appropriately protected from exposure to potentially infectious individuals entering the facilities by wearing an acceptable mask and face shield. Screening staff will have the following PPE available to them: N-95 masks, face shields, gloves and protective gowns. They will also be provided with gloves and gowns to use if they feel it is necessary. Personnel performing screening activities will be trained by Homestead School's EMT, Ann Steimle, who is familiar with CDC, DOH, and OSHA protocols.

Homestead School administration may choose to maintain basic records that confirm individuals were screened and that the result of such screening was simply pass/fail or cleared/not cleared, for example.

If a child being screened presents a temperature of greater than 100.4°F, the individual will be taken to an isolated location until a parent/legal guardian can pick up the child. If an adult presents a temperature of greater than 100.4°F they will be denied entry and be supported in leaving campus immediately. If an individual exhibits symptoms of COVID-19, or answers "yes" to any of the questions on the "Daily Home Screening," the individual will be taken to an isolated location for further evaluation to determine whether they can be permitted entry to the facilities.

Homestead School administration will advise families/legal guardians that the manifestation of COVID-19 in children, although similar, is not always the same as that for adults. Children may be less likely to present with fever as an initial symptom, and may only have gastrointestinal tract symptoms,

which should be taken into consideration during the screening process. Homestead School will also remind parents/guardians that students may not attend school if they have had a temperature of greater than 100.4°F (or any of the other symptoms listed in Section 1 of the Daily Home Screening for Students) at any time in the past 24 hours, even if a fever-reducing medication was administered and the student no longer has a fever. Homestead School administration has provided clear guidelines in the Homestead School Family Handbook and will make themselves available for consultation if a parent/legal guardian is in doubt whether attendance is appropriate or not.

Testing Protocols

Any individual who screens positive for COVID-19 exposure or symptoms, if screened at the school, must be immediately sent home with instructions to contact their health care provider for assessment and/or testing.

Testing Responsibility

In the case of a larger outbreak, Homestead School will work with the local Public Health Services Department located at 50 Community Lane, PO Box 590. Liberty, New York 12754. Phone: 845-292-5910 to administer large scale testing.

3. Containment of Potential Transmission of COVID-19 and Contact Tracing

Homestead School will notify the state and local health department immediately upon being informed of any positive COVID-19 diagnostic test result by an individual within our school facilities or on school grounds, including students, faculty, staff, and visitors. In the case of an individual testing positive, Homestead School will immediately attempt to identify all contacts with that individual while maintaining confidentiality as required by federal and state law and regulations. Homestead will utilize the “Contact Tracing Tool” in such events. (See Appendix 11.) Further, Homestead School will cooperate with our state and local health departments’ contact tracing, isolation, and quarantine efforts. Homestead School will maintain and share accurate records of time, date, nature of the incident, and actions taken.

Homestead School has developed the following containment protocols and procedures for how to respond to positive or presumed-positive cases, as well as preventative practices:

Staff or Students Exhibiting Symptoms of COVID-19

The individual exhibiting Covid-19 symptoms will be asked to “mask up” if not already doing so, asked to wear gloves, and will be sent to the isolation room located on the second floor of the Main Building (#1) for further evaluation by the school’s EMT, Ann Steimle. This evaluation will examine individual’s symptoms in more detail, looking for the following:

- A fever of 100.4 F or higher
- Shortness of breath or difficulty breathing
- A cough
- A runny nose
- Muscle pain

- Tiredness

If COVID-19 symptoms are confirmed, in the case of staff members, they will be asked to go home and speak with their health care provider. If COVID-19 symptoms are confirmed, in the case of students, the family will be contacted to arrange for a pick-up of that student. When the family arrives, they will remain in their car and Homestead staff will bring the child to the car. The family will be informed of the results of the school's screening procedure, the need to speak with the child's health care provider, the possible need for a COVID-19 test, the location of such testing facilities, and be given the New York State COVID-19 Hotline, 1-888-364-3065, and asked to speak with the child's health care provider.

In either case, whether staff or students, Homestead School will provide transportation assistance if needed to ensure that the individuals are able to get home safely and in a timely fashion. Transportation staff will have the following PPE available to them: N-95 masks, face shields, gloves and protective gowns. If illness is serious, 9-1-1 will be called.

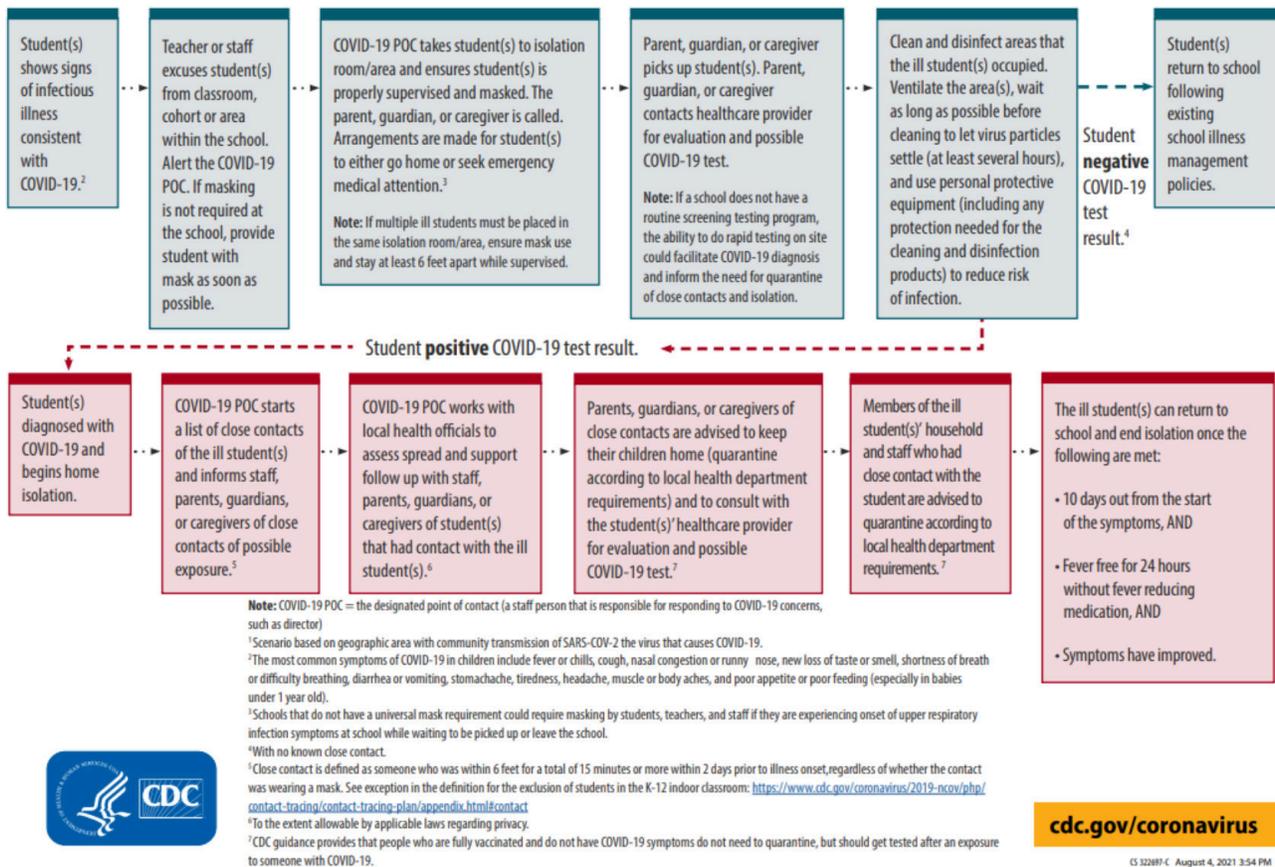
Depending upon the outcome of the screened individual's condition, the isolation room and the school vehicle will be subject to disinfection using the school's atomizer which projects a non-toxic, CDC recommended, EPA approved-for-COVID-19 disinfectant: hypochlorous acid. In the case of a confirmed Covid-19 case, a deep cleaning will take place in the facilities in which the affected individual interacted.

Students with Asthmatic Conditions are identified at the start of each year. Families send in the necessary nebulizers and emergency equipment to Ann Steimle, EMT, who keeps all items in a locked closet for use as needed. A written authorization from the family and the healthcare provider accompanies all articles related to the care of each individual with asthmatic conditions.

Protocol for COVID Symptomatic, COVID Positive Exposure, or COVID Positive Test Results

Homestead School will require that persons who have tested positive for COVID-19 complete the necessary isolation and quarantine procedure and have recovered, and therefore will not transmit COVID-19 when returning to in-person learning. Discharge from isolation and return to school would be conducted in coordination with the local health department. The Homestead School will follow the protocol for COVID symptomatic student or staff outlined in the table below:

WHAT TO DO IF A STUDENT BECOMES SICK OR REPORTS A NEW COVID-19 DIAGNOSIS AT SCHOOL¹



Negative COVID-19 Test Result Protocols

Documentation of negative test results must be provided to Homestead School administration. Homestead School will follow the protocol outlined in the chart below for individuals who test COVID Negative. Students and staff who tested negative can return to campus once symptoms are not worsening and the individual is fever free for 24 hours.

In lieu of a negative test result, and adhering to the chart above, Homestead School will allow students and staff to return to work with a medical note by a physician that provides alternative explanations for symptoms and reasons for not ordering COVID-19 testing.

Return to School:

- Symptomatic individuals who test positive for COVID-19 can return 10 days after symptom onset OR 24 hours after resolution of fever and improvement in other symptoms, whichever is longer.
- Asymptomatic individuals who test positive for COVID-19 can return 10 days after their positive test result.

- Close contacts to confirmed COVID-19 cases can return after completing the required isolation period described above in Chart 1 Scenario 2.

Homestead School administration has read and will uphold DOH's "Interim Guidance for Public and Private Employees Returning to Work Following COVID-19 Infection or Exposure" (See Appendix 12.) regarding protocols and policies for faculty and staff seeking to return to work after a suspected or confirmed case of COVID-19 or after the faculty or staff member had close or proximate contact with a person with COVID-19.

Definition of Close Contact:

- The [CDC guidance document](#) defines a close contact as someone who was within **6 feet of an infected person** (laboratory-confirmed or a [clinically compatible illness](#)) for a cumulative total of 15 minutes or more over a 24-hour period (for example, *three individual 5-minute exposures for a total of 15 minutes*).

Exception: In the **K–12 indoor classroom** setting, the close contact definition excludes students who were within 3 to 6 feet of an infected student (laboratory-confirmed or a [clinically compatible illness](#)) if both the infected student and the exposed student(s) [correctly and consistently wore well-fitting masks](#) the entire time. [Additional guidance for wearing masks is available from the CDC.](#)

This exception does not apply to teachers, staff, or other adults in the indoor classroom setting.

According to the CDC, people who are fully vaccinated do **NOT** need to quarantine after contact with someone who had COVID-19 unless they have [symptoms](#). However, fully vaccinated people should get tested 3-5 days after their exposure, even if they do not have symptoms, and wear a mask indoors in public for 14 days following exposure or until their test result is negative.

Hygiene, Cleaning, and Disinfection:

Homestead School will implement the hygiene, cleaning, and disinfecting protocol as outlined in Section 3: Hygiene, Cleaning, and Disinfection.

Contact Tracing Support:

In order to identify if the level of COVID-19 transmission may be increasing in the school setting beyond an acceptable level as defined by state standards, Homestead School's administration will, from the the first day of school, keep accurate and consistent records of students, faculty, and staff that have tested positive for COVID-19 or have been in contact with persons who have tested positive for COVID-19.

Homestead School will support local health departments in contact tracing efforts using the protocols, training, and tools provided through the New York State Contact Tracing Program. (See Appendix 11.) Homestead School will train faculty and staff to assist with contact tracing efforts for populations in school facilities and on school grounds, where feasible. Confidentiality must be maintained as required by federal and state law and regulations.

Communication:

Nisha Gupta, Director of the Glen Spey campus, will coordinate with the local state and county health departments:

- NY State Public Health Departments of Sullivan County (845) 794-2045 and Orange County (845) 858-1468.
- PA State Health Department: (570) 253-7141
- NJ State: Sussex County Public Health Nursing: (973) 579-0570

Homestead School administration will share protocols and safety measures taken by the school with all relevant parties including parents/legal guardians, faculty, staff, students and local communities while maintaining confidentiality as required by state and federal laws.

Homestead administration will require individuals to immediately disclose if and when their responses to any of the questions in the Regular Health Survey change, such as if they begin to experience symptoms of COVID-19, including during or outside of school hours.

4. Closure of School Facilities if Necessitated by Widespread Virus Transmission.

Because stable cohorts have been maintained, all students and staff in that cohort will be instructed to get COVID-19 testing and remain at home for 10 days. Learning can continue for students in that cohort via our remote learning plan established by Homestead School's Online Task Force. Metrics for widespread virus are as follows:

Cohort and School Closure Metrics

- 1) If one student, staff, or multiple people in a cohort test positive for COVID-19, Homestead School will close access to that cohort's classroom, outdoor weatherproof structure, and playground area. Homestead's maintenance team will clean and disinfect according to the protocol outlined in Section 3: Cleaning and Disinfection Following Suspected or Confirmed COVID-19 Case. That particular cohort will transition to remote learning for a minimum of 10 days. (For students and staff within the infected cohort to return to school, a negative COVID test must be presented.)
- 2) If the school has a second cohort in which a student, staff, or multiple people test positive for COVID-19 this cohort will also follow the protocol outlined in 1. (For students and staff within the infected cohorts to return to school, a negative COVID test must be presented.)
- 3) Once 3 cohorts simultaneously have members who have tested positive for COVID-19, the entire school will switch to remote learning for a minimum of 10 days. (For students and staff within the infected cohorts to return to school, a negative COVID test must be presented. All other students and staff would continue to complete the health survey and would need to be asymptomatic before returning to school.)
- 4) At any time, if there is evidence of rising cases and a threat of spread to the school community, Homestead School may choose to pre-emptively switch part of or all of the school to remote learning to mitigate spread of the virus. For example, Homestead School may choose to have its eldest students switch to remote learning preemptively because those students are more

able to benefit from remote learning than the younger students and they are also more likely to spread COVID-19.

In the event of a campus closure, Homestead School may choose to implement a phased reopening. For example, Homestead may deem it safest to 1.) allow the youngest students to return to campus for a certain number of days before opening the elementary and middle school programs, or 2.) to open one building at a time.

Appendices

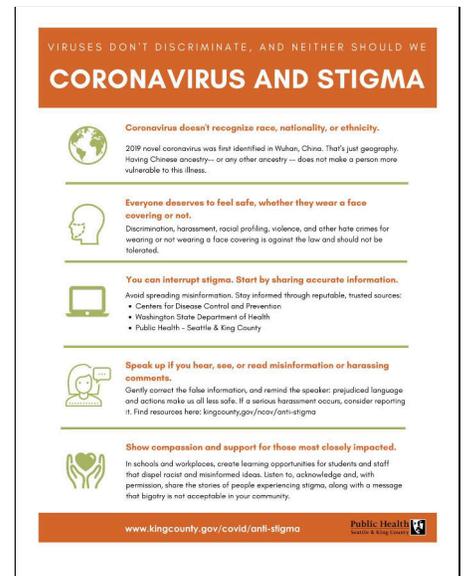
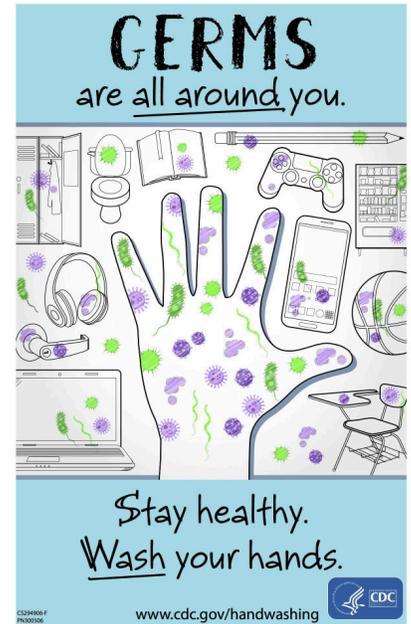
Appendix 1: Classroom Maximum Occupancy Considering Social Distancing and Class Sizes

Classroom Maximum Occupancy Considering Social Distancing and Class Sizes

Classroom	Maximum Occupancy	Realistic Max	Enrolled Students	Layout Configuration/ Dimensions
(# teachers)				
BUILDING 1				
Early Childhood 1 lower front level	24	21	12 (2)	2 rectangular sections with restroom
Early Childhood 2 lower back room	35	25	16 (2)	rectangular room w/ portable sink
Early Childhood 3 upper east room	28	26	16 (2)	main part is rectangular, plus 2 smaller "nooks" and restroom
Early Childhood 4 upper west room	28	26	18 (2)	main part is rectangular, plus 3 smaller "nooks" and restroom
Early Childhood 5 upper north room	33	24	21 (3)	rectangular classroom with restroom
BUILDING 2 (Art)	24	24	14 (2)	rectangular room- sink only
BUILDING 3				
Lower Elementary 1 lower room	25	25	18 (2)	rectangular room w/ portable sink
Lower Elementary 2 middle room	39	28	25 (3)	2 rectangular sections, one with 2 exterior sinks and 3 private toilets
Lower Elementary 3 upper room	33	28	23 (2-3)	3 rectangular sections, one with restroom and locker area
BUILDING 4				
Upper Elementary 1 quonset hut	40	35	25 (3)	rectangular room with restroom
Upper Elementary shared breakout room below UE 2	32	26	0- will be used as a breakout room	2 rectangular, sections with external restroom
Upper Elementary 2 upstairs	30	30	25 (3)	rectangular with external sink, staff area, and restroom
CCHS Hurleyville	100	100	40 (9)	building with 4 classrooms
Staff Room	12	6	N/A	rectangular

* Maximum occupancy in each room was based upon the determination that all persons are able to maintain a minimum of six foot distancing from each other allowing for classroom shelving and necessary furniture items. Realistic max occupancy was calculated with the additional considerations of classroom configuration, additional furniture, and the current staffing of each room.

Appendix 2: Signage for Bathrooms, Hallways, and Classrooms (smaller than actual size)



Appendix 3: Air Purifying Units

Cleaning Indoor Air using AtmosAir Bi-Polar Ionization Technology

Dr. Philip M. Tierno Jr., Professor of Microbiology and Pathology, New York University School of Medicine

April 2017

Clean air, both outdoors and indoors, is an essential determinant of a healthy life and a person's well being.

Outdoor Air Quality (OAQ): The federal government has made great progress towards cleaning outdoor air since 1970 via the Clean Air Act (CAA) and its additional amendments signed into law in 1990. This Act resulted in a significant 70% reduction of aggregate emissions of six representative indicators of common pollutants between the years of 1970 to 2014! Thusly, the CAA laws define the EPA's responsibilities for protecting and improving the nation's outdoor air quality utilizing the advances in science and technology to accomplish this task (1). These outdoor air quality improvements have enabled many areas of the country to meet national air quality standards set to protect public health and the environment. To simply summarize: for more than 40 years the CAA has significantly cut outside air pollution even as the U.S. economy has grown. Because of the act, Americans breathe less outdoor air pollution and face lower premature death and other adverse health effects (1).

Indoor Air Quality (IAQ): Despite public health awareness and progress on outdoor air pollution, progress on indoor air pollution has significantly lagged behind. The quality of air inside homes, offices, schools, day care centers, hospitals and other health care facilities (where multi-drug resistant bacteria reside), as well as other private and public buildings where people spend a large part of their life, is also an essential determinant of health and well being. Interestingly, indoor air quality is profoundly important for two main reasons. First, most Americans spend about 90% of their time indoors! Second, the EPA has reported that indoor air pollution is 25 to 100 times worse than the outdoor air. However there are some standards for indoor air. For example, if you work with certain chemicals, sprayed substances, powders or known carcinogens or allergens, the Occupational Health and Safety Administration (OSHA), the EPA of the workplace, requires employers to reduce risk for workers (2). The EPA has also developed some additional IAQ tools for schools (3). Certainly also the WHO (World Health Organization) has a long tradition in synthesizing the evidence on the health aspects of air quality and in providing air quality guidelines defining conditions for healthy air (4). IAQ is a term, which refers to air quality within as well as around buildings and structures, especially as it relates to the health and comfort of the occupants (5). IAQ is affected by gases (such as carbon monoxide and carbon dioxide), volatile organic compounds (VOCs), particulates, microbes (including bacteria, viruses and mold fungi), allergens, odors of a variety of types, and anything else that might affect the quality of the air.

How We Make Each Other Sick: There are available techniques for cleaning indoor air, but in order to better understand these options it is imperative to first discuss the dynamics of how we make each other sick. The great majority of human infections, about 80%, are transmitted by direct and indirect contact, and the remaining 20% of infections are transmitted by 3 other modalities, namely, common source (contaminated food or drink), arthropod vectors (such as

mosquitoes and ticks), and true airborne droplets (particles 5 micrometers or less, which is 5 millionths of a meter in size, and which do not readily drop to the affect of gravity. Infections such as tuberculosis, SARS and influenza can be spread in this way) (6).

Contact Spread: For contact spread the perspective host must have actual contact with the source of germs. Such contact can be direct, indirect or via aerosol droplets. An easy to understand example of **direct contact** is shaking hands or kissing someone who has a cold, which can easily spread that cold virus to you. Coughing, sneezing or talking (**are aerosols** which usually spread *within a few feet from the source and the victim*) in the face of another person in close proximity can also spread their germs directly to that person. On the other hand, **indirect contact** spread is distinguished from direct contact transmission by an intermediate object, usually an *inanimate object (fomite)* like a doorknob or other surface that a contagious person has touched or contaminated very recently, then afterwards, you touch it and then touch your eyes, nose or mouth or an opening in the skin which are the conduits of entry into your body.

Airborne Spread: Airborne spread implies the spread of germs *over a distance of more than several feet between the source and the victim*. The infectious organisms are usually contained in *droplet nuclei*, which are 5 micrometers in diameter (5 millionths of a meter) or smaller in size. These particles can remain suspended in air for hours or days and do not easily fall to the forces of gravity. The classic example of airborne spread is the transmission of the tuberculosis bacillus by means of droplet nuclei. Another organism spread via airborne is influenza, and yet another virus called SARS. We also learned in the post-911 anthrax attacks on NYC and elsewhere that the spores of anthrax also travel well in the air and can be kicked-up, so to speak, in particles and dust (6).

Allergens: Recently there was a report of a leaky dust filled vacuum cleaner, contaminated with Salmonella, which got re-suspended in the air each time the vacuum cleaner was turned on thereby infecting and re-infecting the household members. What is important to understand is that dust particles can carry germs but they can also carry allergens. According to the CDC allergies are the 6th leading cause of chronic disease in the U.S. at a cost of about \$18 Billion all told. An interesting statistic often quoted is that the average 1500 sq. ft. house accumulates about 40 pounds of dust over a year. And there are approximately 40,000 dust mites and debris that are contained in every ounce of dust. Breathing in such air can exacerbate existing allergies including asthma. Some ill health effects may show up shortly after a single exposure to pollutants in indoor air while some people can become sensitized to biological or chemical pollutants after repeated exposure. Other ill health effects may show up either years after exposure has occurred, or after repeated periods of exposure to poor indoor air quality (6).

Greatest Risks: Anywhere there is a building or facility that houses numerous people over an extended period of time, there is an unquestionable need to provide and/or maintain the quality of the indoor air. This is especially so for hospitals, medical centers, and other medical facilities, because this is where most of the antibiotic resistant bacteria reside and where many sick people are housed. As previously mentioned 80% of all infectious diseases are transmitted by direct and indirect contact. This issue is especially important in hospitals where caregivers can contribute to unnecessary illness and even deaths. According to the CDC there are almost a million nosocomial (hospital acquired) infections that occur every year as well as about 75,000 deaths from these infections at a cost to society of about \$4 billion annually (7). Nosocomial infections, especially those caused by highly antibiotic resistant germs, kill more people every year than pancreatic cancer, leukemia, multiple sclerosis, Parkinson's disease, and Alzheimer's combined. These diseases are the subjects of large public-relations campaigns to raise

awareness and solicit funds to combat them. Yet nothing as robust exists for nosocomial infections. Certainly antibiotics have saved millions of lives over the past 65 years or so, and will save countless others in the decades to come but in one sense the world's antibiotic use has been a 65 year experiment in self-sabotage. The selective ability to develop antibiotic drug resistance has allowed us to create more and more dangerous germs. Misuse of wonder drugs has created superbugs. Nowhere are superbugs more prevalent than in hospitals and medical facilities (6). It is of the utmost importance to prevent infection in anyway and everyway we can (including use of advanced technology that can maintain *indoor air quality*), so as not to be faced with a treatment dilemma.

Available Techniques for Purifying and/or Positively Affecting Indoor Air Quality: There are currently several technologies on the market that are useful to varying degrees for the purification of air and the maintenance of IAQ, allowing for reduction of infectious agents such as bacteria, viruses and fungi, as well as reduction in allergens and other particulates, especially useful in hospitals and other medical facilities. If we can greatly reduce or prevent an infection from occurring, we do not have to worry about antibiotic resistance or other problematic aspects of treating them. In a similar way reducing or eliminating allergens may more positively affect the 6th leading cause of chronic disease in the U.S. –allergies and asthma. These IAQ purification techniques are listed as follows in order of decreasing efficacy: Bi-Polar Ionization, PCO/PCI (photo-catalytic oxidation) technology, Needle-point Ionization, HEPA Air Filters, UV Light, Electrostatic precipitation. Of the aforementioned, there is only one technology that satisfies all of the tenants for providing clean indoor air quality for an entire building, which uses low energy, is effective against bacteria, viruses, and mold fungi (whether in air or on surfaces), neutralizes particulates, breaks down VOCs (Volatile Organic Compounds) eliminates unpleasant odors, eliminates static electricity, and produces no chemical or harmful by-products and this is accomplished by the production of positive and negative ions (bipolar ionization). That system is AtmosAir Bipolar Ionization.

Bipolar Ionization: Bipolar ionization is created when an alternating voltage source (AC) is applied to a special tube with two electrodes. When voltage is applied to the tubes electrodes (like electricity is applied to a light bulb's filament) an ionization field is produced around the tube (just as light is produced from the light bulb). However the ionization cannot be seen but its presence will result in "mountain air" freshness. Such ions occur naturally especially on mountain tops and waterfalls, where the production of both positive and negative ions purify the air. Such a system has significant commercial and industrial applications. The airflow distributes the energized ions into all spaces served by the duct system in an in-duct installation or into the application space if a standalone is used. The beauty of the AtmosAir system is just how easily it integrates into existing commercial and residential HVAC systems. Unlike most air purification systems AtmosAir seeks out particulates and contaminants, including germs and does not wait for pollutants to find their way into the filter within the air handler. Instead **charged ions go to the contaminants in the space where you breathe, just as in nature, and do so in a continuous fashion and with continuous disinfection.**

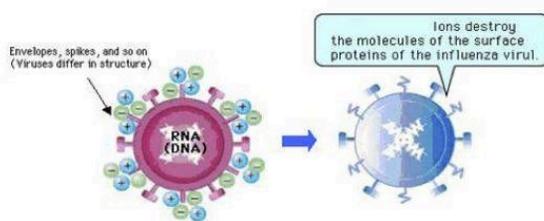
These positively and negatively charged ions have an effect on dust particles, allergen VOC's, odors, and bacteria, viruses, molds and mold spores. For example, regarding particles--- oppositely charged ions cause particles to attract to other particles and become bigger and heavier, by a process called "agglomeration". These bigger heavier particles can now be better trapped by HVAC system filters so the filters operate more efficiently. Also

many small particles that are generated within a space by people and their activities may never get to system filters and ordinarily stay suspended in air for long periods and can be breathed in, increasing the chance of illness and respiratory distress. The **AtmosAir bipolar ion process will drop these to the floor quickly taking them away from where we breathe**. VOC's or gaseous chemical off gasses typically cause odors and irritations. These are also a major source of "Sick Building Syndrome" complaints, where people feel ill at work but feel better when they leave the building. **Bi-Polar ions break down hydrocarbon chains** that make up these complex compounds into immeasurable levels of carbon dioxide and water vapor. On micro-organisms like bacteria, virus and molds, **bi-polar ions will interrupt the reproductive ability of these organisms** so rather than colony forming units (cfu) increasing and spreading and expanding, they shrink away and lessen the chance of infection.

The Effect of AtmosAir Bipolar Ionization generators on microorganisms:

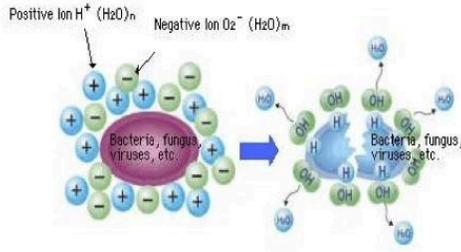
The negative and positive ions that are generated by BPI are designed to treat and allow energy imparted by the ions to transform ordinary oxygen into Reactive Oxygen Species (ROS), Superoxides, Peroxides, and Hydroxyls. These ions have the property of clustering around micro-particles, and thus, they surround harmful substances such as airborne mold, viruses, bacteria and allergens. At that point, a chemical reaction occurs on the cell membrane surface, and they are transformed into OH radicals, which are powerfully active (Standard Oxidation Potential [V] = 2.81 for OH vs H₂O₂ = 1.78 and O₂ = 1.23) and because they are unstable they rob the harmful substance of a hydrogen atom (H). The result is that they are inactivated by severing the protein on cell membrane, which causes the opening of holes, thusly destroying the entity. The OH radicals instantly bond with the removed hydrogen(H), forming water vapor (H₂O) which returns to the air. It is most important to note that bipolar ionization kills microbes without damaging DNA (therefore it does not cause cancer) in the interior of cells and unlike other physical and chemical agents, such as UV light, radioactivity and use of caustic chemicals, BPI is totally GREEN and it does NOT adversely affect the environment in any way.

See the figures below, which pictorially help explain this process:



Mechanism for Inactivating Airborne Virus

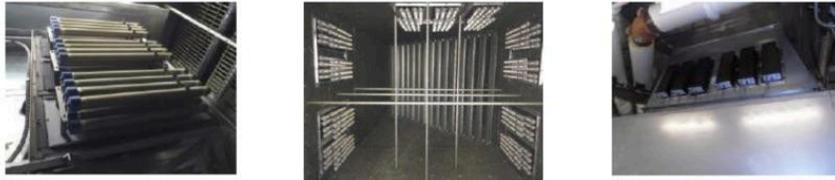
The positive (H⁺) and negative (O₂⁻) ions surround the hemagglutinin (surface proteins that form on organisms and trigger infections) and change into highly reactive OH groups called hydroxyl radicals (•OH). These take a hydrogen molecule from the hemagglutinin and change into water (H₂O). The ions destroy the virus surface structure, for example its envelopes and spikes, on a molecular level. As a result, the virus cannot infect even if it enters the body.



Mechanism for Inactivating Bacteria, Fungi

The positive (H⁺) and negative (O₂⁻) ions cluster together on the surface of airborne bacteria or fungi, causing a chemical reaction that results in the creation of highly reactive OH groups called hydroxyl radicals (•OH). The hydroxyl radical will take a hydrogen molecule from the cell wall of an airborne bacteria or fungi particle.

The AtmosAir technology accomplishes these benefits by sizing systems that consist of one of more bi-polar ion tubes, to the airflow rate of the HVAC system and the particulars of the space. The system then saturates the spaces with adequate quantities of bi-polar ions to ensure these reactions can occur. See below some pictures of installed systems:



One advantage to the way the AtmosAir technology is applied is that it requires no re-engineering of the HVAC system, requires no continual adjustment or maintenance except a replacement of the bi-polar ion tube every 2 years.

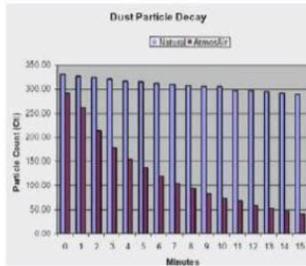
In laboratory testing AtmosAir systems have shown significant contaminant reduction capabilities. The active process of the ions saturating the space to get to the source of contamination shows great efficiency when compared to passive technologies that must bring the contaminant to the device to be affected. See the below chart of comparison testing of CADR rate (Clean Air Delivery Rate):

Technology	CADR Rate
AtmosAir B-Polar Ionization	125
Lennox Photo Catalytic Oxidation	47.4
Honeywell Electronic Air Cleaner	35.8
Emerson Polarized Media Filter	27.2
Sharper Image Ionic Breeze	4.8
GPS Needlepoint Ionizer	1.3
Activetek PCO	-3.9

Source: Intertek ETL

Testing was performed to standard ASNI/AHAM AC-1-2002. Testing rated relative performance on .3 micron particles in a standard 10'x10'x10' chamber.

AtmosAir systems have shown good performance on dust particles, VOC's and micro-organisms both in air and on surfaces, see below some testing charts from this technology:



Source: Intertek ETL

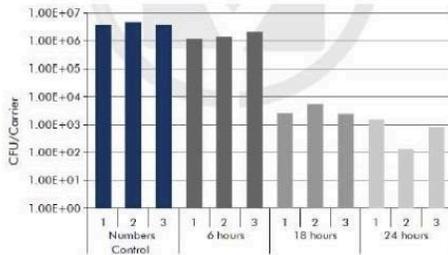
Testing was performed to standard ASNI/AHAM AC-1-2002. Testing showed performance on .3 micron particles in a standard 10'x10'x10' chamber. Without AtmosAir a 12.8% natural decay rate was measured while with AtmosAir supplying ions to the chamber an 85.8% decay rate was measured.

AtmosAir TVOC Testing

Test Site	Percentage Reduction
Kilroy Realty	79%
Hyatt Hotel	95%
Staples Center	90%
Santa Ana Schools	97%
USC	97%
Rivers Casino	90%

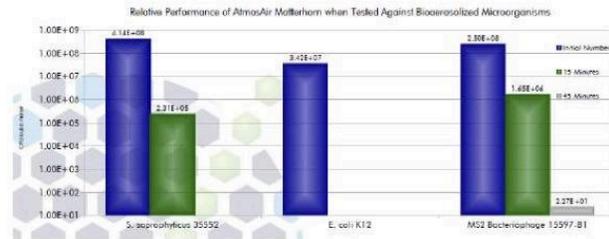
Source: Aircuity Inc, EMSL Analytical, Healthy Buildings International, DTS Environmental

TVOC levels as well as fixed gas levels were measured using Aircuity Optima monitors, EPA TO-15 and EPA TO-17 method analyzed by capillary gas chromatography and mass spectroscopy



Source: Microchem Laboratory, Round Rock, TX

Clostridium Difficile (C-Diff) was studied to see the affect of AtmosAir bi-polar ions. After 24 hours the percentage reduction was 99.98% when compared to the control group, a 3.64 log reduction.



Source: AntiMicrobial Test Labs, Round Rock, TX

Staphylococcus Saprophyticus, Escherichia coli and MS2 Bacteriophage were aerosolized in a test chamber and a control group and test group were studied. All three organisms showed a 99% reduction after only 15 minutes of exposure to AtmosAir bi-polar ions when compared to a control group

Combined with the ability to provide cleaner and healthier air is also the ability for **AtmosAir systems to enable a building to save energy**. When air quality and the typical contaminants are considered and a proven strategy is used to control those contaminants (per ASHARE 62.1 IAQ Procedure) ventilation code required outside air introduction can be reduced and greater volumes of already conditioned air can be re-circulated. This allows a building's air handlers to cycle less and run for shorter durations and well as chillers and / or condensing units. This can **enable significant HVAC energy savings sometimes up to 20%** which, in turn, will impact the overall electrical and gas, oil or generated steam cost.

This strategy has been proven in several studies. The US Army in a project co-sponsored by DOE conducted a study with AtmosAir and reducing outside air need in a test building. The study concluded that a reduction of outside air from 40 cfm (cubic feet per minute) per person occupancy down to 5 cfm per person combined with AtmosAir

resulted in overall improved air quality in particles, spores and VOC levels while showing a reduction in HVAC power demand of 23%. This resulted in over 50 full-scale building integrations and growing. In a similar case study, **Staples Center in Los Angeles, CA studied AtmosAir** along with a strategy that included reduction of outside air by 50% and downsizing media filters from MERV 14 to 11. The study showed overall better air quality with particle and VOC reductions and HVAC power demand decrease of 21%. This study led to a full-scale integration of AtmosAir and reduced outside air and downsized filters throughout the entire arena. Because Bi-polar ionization will go to the source of contamination, a larger percentage of particles are affected than with filter systems. It has the effective filtering capacity of MERV 13 filtration without the static load on the air system.

Comparative Cost Savings and Simple Installation:

The AtmosAir technology can enable significant cost reductions when compared to the cost of HVAC equipment. Typically HVAC equipment costs approx \$1,500 per ton with a ton being equal to 400 supply cfm capacity or approx 400 square feet capacity so cost would be \$3.75 per cfm or square foot. A bi-polar ion system installed costs approx .80 per cfm or per square foot, so bi-polar ionization with its ability to reduce outside air and the tonnage needed to condition that air, provides a cost effective solution to providing good IAQ in buildings. Overall energy use in a typical building is 50% HVAC related and of that HVAC energy use is over 50% from having to condition outside air so the energy savings impact is substantial. Also AtmosAir systems are very easy to integrate into new or existing HVAC systems. Systems can be easily installed into the main supply duct of the HVAC system so the bi-polar ion tubes can be inserted into the supply airflow and saturate the interior with bi-polar ions. A typical system that can serve up to 15,000 square feet can be installed in under an hour. Also the same system uses less than 50 watts of power to operate and imparts a negligible static pressure on the airflow, so these systems do not impose an energy penalty by their use as adsorbent technologies such as carbon filters or other types of air scrubber systems will by their operation. When compared to a high efficiency filter for cost of operation, AtmosAir systems will cost 90% less to operate due to the low airflow restriction and operating cost.

Some Additional Supportive Research

As previously mentioned nosocomial infections in hospitals, especially with highly antibiotic resistant germs, infect about a million patients annually, killing about 75,000 of them at a cost of about \$2 billion. Several published studies have shown the usefulness of bipolar ionization controlling airborne bacterial populations. For example, there is ample evidence that airborne route of transmission is important in the epidemiology of several nosocomial bacteria including *Acinetobacter* spp infections (8). Multiple antibiotic resistant *Acinetobacter* spp have emerged as a significant health-care associated infection (nosocomial) and these microbes usually become endemic throughout the hospital (9). The above cited study reported that *Acinetobacter* spp cases were reduced from 11 to 2 (p= 0.007) using bipolar ionization. Further, this study reported that it is clear that ionization has a likely role in prevention of *Acinetobacter* infections (8).

There is growing evidence that bioaerosols can be generated in an indoor setting by ventilation or air conditioning systems, dust or shed skin disturbance, coughs, and sneezes among others (10, 11). Several other studies have demonstrated that hospital activities,

such as bed making, caused significant aerosolization of methicillin-resistant *Staphylococcus aureus* (12, 13). Even nurses polypropylene aprons, along with other plastic materials used in a healthcare setting generated static electric fields and collected high numbers of microbes (14). Another study reported that when surgeons perform endoscopic surgery they frequently point to a video monitor during the procedure and they found that bacteria grew when a gloved hand passed within 4 cm of the monitor but not beyond 8 cm distance (15). In another study, a 40-50 % reduction in microbial air pollution was found after employing a 13.5 kV corona-type ion generator every second week in a dental clinic (16). Similar types of studies have been conducted for non-biological particles in the semiconductor industry. Another major study evaluated the effect of surface charge and air ionization on deposits of airborne bacteria (17). They found that implementation of bipolar ionization resulted reduction of bacterial deposition. This is important because static charges on fomite surfaces may attract resulting deposition in excess of that expected by gravitational sedimentation or simple diffusion (17). Their findings suggest that highly charged bioaerosols and materials used in patient setting may represent an important new avenue for exploration and research into reduction of hospital-acquired infections.

Airborne movement of dust, and other particulates has frequently been implicated as a potential mechanism for transmitting *Salmonella enteritidis* infection in poultry houses (18). In order to determine whether air ionization would affect airborne transmission of *S. enteritidis*, baby chicks were housed in four controlled-environment isolation cabinets in which airflow was directed across an unoccupied central area from one ("upstream") group of birds to another ("downstream") group (18). Ionizers were installed in two of the cabinets. In three replicate trials, groups of chicks were placed in the upstream end of the transmission cabinets and orally inoculated with *S. enteritidis* at one week of age. On the following day, 1-day-old chicks were placed in the downstream end of the cabinets. When chicks were sampled at 3 and 8 days post-inoculation, *S. enteritidis* was found on the surface of 89.6% of the downstream chicks from cabinets without negative air ionizers, but on only 39.6% of the downstream chicks in the presence of the ionizers. Most importantly, *S. enteritidis* was recovered from the ceca of 53.1% of sampled downstream chicks in cabinets without ionizers, but only 1 % of the ceca of chicks in cabinets with ionizers installed (18).

Studies of the effects of ionization on bacterial aerosols in a burns and plastic surgery unit were studied (19). It is known that the microbial contamination of the air in burn units is high (20). A classic study demonstrated in single rooms where isolated patients were nursed, the ionization experiments of 24 h periods with -5kV showed lower sedimentation bacterial counts during ionization on two repeated occasions (19). The total colony counts represent contamination due to staff and patients. Phage typed finger-printing of *Staphylococcus aureus* strains in the air indicate shedding by individual patients. Although the sheath bacteria-carrying epithelial cells is large, the number of *S. aureus* bearing particles was significantly decreased by ionization. Clearly the number of *S. aureus* shed by patients in presented cases was also lower during the ionization (19). In a similar study, researchers performing experiments with animal respiratory diseases caused by Newcastle disease virus suggested that contamination of the air by droplets that carry other bacteria like *Mycobacterium tuberculosis*, *Mycoplasma pneumonia*, and other microbes (like *Legionella pneumophila*), may also be prevented by ionization of the air (21). They suggest that ionization of air may prove to be an alternative to increased air ventilation and filtration (21).

Air ionization has a long history of varied applications. In one published review article on the ionization of air for removal of “noxious effluvia”, a presentation of recent developments in the application of controllable air ionization processes that apply dielectric-barrier discharge devices to generate non-thermal plasmas have led to applications for chemical and biological decontamination in indoor environments (22). These include significant reductions in airborne microbes, neutralization of odors, and reduction of VOCs. Also removal of very fine particulates (PM_x) is also enhanced by air ionization. The physics and chemistry of air ionization, and its utility for contributing to significant improvements in indoor air are discussed in detail (22).

The efficacy of bipolar ionization technology against a wide variety of pathogens was confirmed through collaborative research (23). Efficacy in inhibiting of airborne target substances noted below was verified by exposing those organisms to an ion concentration of at least 3000 ions/cm³. Effective kill was achieved in seconds to minutes dependent upon the microbe, the exposure time, and the concentration of ions. Studies have shown that a more rapid kill-time can be achieved by increasing concentration of ions. For example, Sharp Corporation studies in collaboration with Retroscreen Virology Ltd demonstrated that the highly pathogenic H5N1 avian influenza virus could be inactivated by 99.9% in ten minutes using a high bipolar ion concentration of 50,000 ions/cm³ (24). Sharp has also shown that reduction by 99% could be achieved in ten minutes at a concentration of 7000 ions/cm³ (24). It is very important to understand that during actual real-time in-use conditions, bipolar ionization systems perform in a continuous steady fashion with continuous disinfection so that large bolus concentrations are unnecessary for effectiveness.

The results of a series of studies are summarized in the chart below (23, 24):

John Oxford's Efficacy of Bi-Polar Ionization on Various Pathogens		
Target Substance	Species	Testing and Verification Organization
Fungi	Cladosporium (black mold, mildew)	Ishikawa Health Service Association Universitätsklinikums Lübeck University Clinic (Germany) (proliferation control effect) CT&T (Professor Gerhard Artmann, Aachen University of Applied Sciences)
	Penicillium, Aspergillus	Universitätsklinikums Lübeck University Clinic (Germany) (proliferation control effect)
	Aspergillus, Penicillium (two species), Stachybotrys, Alternaria, Mucorales	CT&T (Professor Gerhard Artmann, Aachen University of Applied Sciences)
	Coliform bacteria (E. Coli)	Ishikawa Health Service Association
Bacteria	E. coli, Staphylococcus (aureus), Candida	Shanghai Municipal Center for Disease Control and Prevention, China
	Bacillus subtilis	Kitasato Research Center of Environmental Sciences CT&T (Professor Gerhard Artmann, Aachen University of Applied Sciences)
	MRSA (methicillin-resistant Staphylococcus aureus)	Kitasato Research Center of Environmental Sciences Kitasato Institute Medical Center Hospital
	Pseudomonas, Enterococcus, Staphylococcus	Universitätsklinikums Lübeck University Clinic (Germany) (proliferation control effect)
	Enterococcus, Staphylococcus, Sarcina, Micrococcus	CT&T (Professor Gerhard Artmann, Aachen University of Applied Sciences)
	Viruses	H1N1 influenza virus
H5N1 avian influenza virus		Retroscreen Virology, Ltd.
Coxsackie virus (summer colds)		Kitasato Research Center of Environmental Sciences
Polio Virus		Kitasato Research Center of Environmental Sciences
Corona Virus		Kitasato Institute Medical Center Hospital
Allergens		Mite allergens (dead bodies and feces)
	Pollen	Hiroshima University

Air ionization, although historically well documented and technologically well advanced, is just now entering the field of treatment of specific targets in indoor environments, which directly affect the IAQ and bring with it the potential for associated health benefits!

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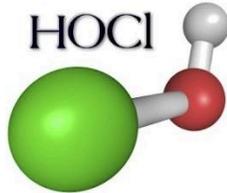
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About the author

Dr. Tierno is Professor of Microbiology and Pathology at NYU School of Medicine and NYU Langone Medical Center. Dr. Tierno also serves on the Global Hygiene Council. Dr. Tierno is the author of the book, The Secret Life of Germs, and has authored or co-authored several other publications. Dr. Tierno has served on the New York City Mayor's Task Force on Bio Terrorism.

Appendix 4: About Hypochlorous Acid

About Hypochlorous Acid



Hypochlorous acid is naturally produced by white blood cells of all mammals. It plays an important role in the immune system killing pathogens through oxidation and chlorination.

Hypochlorous acid can also be produced through a process called electrolysis. Electrolysis is a technique that uses a direct electric current (DC) to drive an otherwise non-spontaneous chemical reaction. Specifically engineered electrolysis cells can generate a solution of free chlorine species by running electricity through NaCl (table salt) and water. The oxidants hypochlorous acid (HOCl) and hypochlorite (OCl⁻) are formed at the anode. If the pH of the solution is weakly acidic to neutral, the free chlorine solution will be dominated by hypochlorous acid.

Hypochlorous is a powerful oxidant and is 100 times more efficient at killing microbial pathogens than sodium hypochlorite (aka. chlorine bleach).

New Technology & Research

The use of chlorine for disinfection has been researched for over 100 years. It has been an undisputable fact that hypochlorous acid offers far superior disinfecting properties than sodium hypochlorite (chlorine bleach). One of the most well known authorities for the use of chlorine as a disinfectant is *White's Handbook of Chlorination*. This book is comprehensive in explaining the chemistry and effectiveness of chlorine and alternative disinfectants.

The challenge has been in engineering a system for producing a free chlorine solution that is dominated by the molecule of hypochlorous acid (HOCl) rather than sodium hypochlorite (NaOCl). The development of electrolysis cells for generating electrolyzed water became a huge innovative breakthrough in the 1970s. Since then, improvements in electrolysis cells have been made that can generate a solution of free chlorine that is near 99% hypochlorous acid and that is stable.

One of the most recent improvements has been the development of single cell technology to replace membrane cell technology allowing for the production of just one stream of solution at a near neutral pH. Prior technology used membranes and high pressures that forced two streams to be generated, an unstable anolyte of hypochlorous acid and an unstable catholyte of sodium hydroxide. With the development of single cell technology, a stable solution of just anolyte can be produced yielding a solution of near 99% stable hypochlorous acid.

Over 30 years of research exists for the use of hypochlorous acid and new research is being published every year. Recent research has focused on the use of hypochlorous acid for sanitizing food and food processing facilities. Research has also been done on poultry farms, water treatment and disinfection, and healthcare related applications such as wound care and equipment sterilization.

Search over 300 published research articles on the use of hypochlorous acid.

Research Database

Safe on Eyes and Skin

Hypochlorous acid does not cause irritation to eyes and skin. Even if it were ingested it causes no harm. Because it is so safe, it is the ideal sanitizer for direct food sanitation and food contact surfaces. It is also ideal in healthcare where it is used for wound cleansing, eye drops, and patient room disinfection replacing toxic chemicals such as bleach and quaternary ammonium (quats).



Non-Toxic, Non-Hazardous

Sanitation chemicals distributed in concentrated form are toxic and can be hazardous. Contact with skin or inhalation of fumes can cause irritation. These risks do not exist with hypochlorous acid. Electrolyzed water systems generate hypochlorous acid from just table salt, water and electricity. No personal protective gear is required.



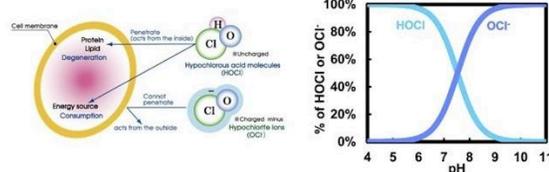
How does HOCl kill microbial pathogens?

The molecule of hypochlorous acid is HOCl. This molecule is unique in that it is neutrally charged unlike hypochlorite (OCl⁻) which is negatively charged. So why is this important?

Disinfectants and microbial pathogens interact with each other similar to magnets. If you bring together two negatively charged magnets, they will repel each other. Bacteria and hypochlorite (OCl⁻ aka. bleach) are both negatively charged and behave like two negatively charged magnets repelling each other. Hypochlorous acid (HOCl) is neutrally charged and is not repelled by bacteria. HOCl easily penetrates the walls of the bacteria and destroys them with its strong oxidation potential.

Why is pH important?

A free available chlorine (FAC) molecule is one that is not attached. There are three forms of free available chlorine: chlorine gas, hypochlorous acid and hypochlorite. Assuming a constant temperature of 25 degrees Celsius, when the pH is below 3, free chlorine will leave solution as chlorine gas. When the pH is above 7.5, over 50% will be hypochlorite (OCl⁻) and will increase in hypochlorite as it rises toward pH 14. Between pH 3 and pH 7.5 the free chlorine solution will be dominated by hypochlorous acid (HOCl).



Appendix 5: Interim Cleaning and Disinfection Guidance for Primary and Secondary Schools for COVID-19



**Department
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Commissioner

SALLY DRESLIN, M.S., R.N.
Executive Deputy Commissioner

Interim Cleaning and Disinfection Guidance for Primary and Secondary Schools for COVID-19

Background:

In December 2019, a new respiratory disease called Coronavirus Disease 2019 (COVID-19) was detected in China. COVID-19 is caused by a virus (SARS-CoV-2) that is part of a large family of viruses called coronaviruses. To help prevent spread of COVID-19, schools should continue to educate students, faculty and staff about proper hand and respiratory hygiene.

Hand hygiene:

- Regular hand washing with soap and water for at least 20 seconds should be done:
 - Before eating;
 - After sneezing, coughing, or nose blowing;
 - After using the restroom;
 - Before handling food;
 - After touching or cleaning surfaces that may be contaminated; and
 - After using shared equipment like computer keyboards and mice.

If soap and water are not available, use an alcohol-based hand sanitizer. School medical directors should approve and permit the use of alcohol-based hand sanitizers in their facilities without individual's physician orders as alcohol-based hand sanitizers are considered over-the-counter drugs. Student use of alcohol-based hand sanitizers should always be supervised by adults. Parents/guardians can inform the school that they do not want their child to use alcohol-based hand sanitizers by sending a written notice to the school.

Respiratory hygiene:

- Covering coughs and sneezes with tissues or the corner of elbow; and
- Disposing of soiled tissues immediately after use.

What steps should schools in NYS take for COVID-19?

Now:

Schools should continue performing routine cleaning. Specific high-risk locations warrant cleaning and disinfection at least daily.

If an individual with laboratory confirmed COVID-19 was

symptomatic in a school-setting:

Cleaning and disinfection throughout the school.

Routine Cleaning:

Soiled and frequently touched surfaces can be reservoirs for pathogens, resulting in a continued transmission to people. Therefore, for pathogenic microorganisms that can transmit disease through indirect contact (transmission through contaminated surfaces), extra attention must be paid to surfaces that are touched most often by different individuals. **As part of standard infection control practices in school settings, routine cleaning should be continued.**

In New York State, all primary and secondary schools are required to use green cleaning products. For additional information on the laws regarding the use of green cleaning products, see the [Policies, Guidelines and Report](#) section of NY's Green Cleaning Program website. Routine cleaning of school settings include:

- Cleaning high contact surfaces that are touched by many different people, such as light switches, handrails and doorknobs/handles.
- Dust- and wet-mopping or auto-scrubbing floors.
- Vacuuming of entryways and high traffic areas.
- Removing trash.
- Cleaning restrooms.
- Wiping heat and air conditioner vents.
- Spot cleaning walls.
- Spot cleaning carpets.
- Dusting horizontal surfaces and light fixtures.
- Cleaning spills.

Specific high-risk locations within a school warrant cleaning and disinfection before a confirmed case of COVID-19 occurs in the school.

Examples of these locations include:

Health Office

- Clean and disinfect health cots regularly (after each student use)
- Cover treatment tables and use pillow protectors
- Discard or launder coverings after each use

Lunchrooms

- Clean and disinfect lunch tables regularly (at least once daily)

Athletic Rooms

- Establish a regular cleaning schedule for shared environmental surfaces such as wrestling mats or strength-training equipment
- Disinfect mats and other high-use equipment at least daily

Other Frequently Touched Surfaces

- Clean and disinfect frequently touched surfaces at least once daily after students have left for the day

Cleaning and Disinfection:

Cleaning removes germs, dirt and impurities from surfaces or objects, while disinfecting kills germs on surfaces or objects. **If a laboratory confirmed case of COVID-19 was symptomatic while in the school setting, custodial staff should perform cleaning and disinfection of frequently touched areas throughout the school.**

Step 1: Cleaning: Always clean surfaces prior to use of disinfectants in order to reduce soil and remove germs. Dirt and other materials on surfaces can reduce the effectiveness of disinfectants. For combination products that can both clean and disinfect, always follow the instructions on the specific product label to ensure effective use. In New York State, all primary and secondary schools, state agencies, and state authorities are required to use green cleaning products. For additional information on the laws regarding the use of green cleaning products, see the [Policies, Guidelines and Report](#) section of NY's Green Cleaning Program website.

Step 2: Disinfection: Cleaning of soiled areas must be completed prior to disinfection to ensure the effectiveness of the disinfectant product. **NYS Green Cleaning Program does not address the use of disinfection products. Disinfection products may be used in school settings as needed at any time.** If EPA- and DEC*-registered products specifically labeled for SARS-CoV-2 are not available, disinfect surfaces using a disinfectant labeled to be effective against rhinovirus and/or human coronavirus. If such products are unavailable, it is also acceptable to use a fresh 2% chlorine bleach solution (approximately 1 tablespoon of bleach in 1 quart of water). Prepare the bleach solution daily or as needed. EPA- and DEC*- registered disinfectants specifically labeled as effective against SARS-CoV-2 may become commercially available at a future time and once available, those products should be used for targeted disinfection of frequently touched surfaces.

Examples of frequently touched areas in schools:

- Classroom desks and chairs;
- Lunchroom tables and chairs;
- Door handles and push plates;
- Handrails;
- Kitchen and bathroom faucets;
- Light switches;
- Handles on equipment (e.g., athletic equipment);
- Buttons on vending machines and elevators;
- Shared telephones;
- Shared desktops;
- Shared computer keyboards and mice; and
- Bus seats and handrails.

Note: Computer keyboards are difficult to clean due to the spaces between keys and the sensitivity of its hardware to liquids. When shared, they may contribute to indirect transmission. Locations with community use computers should provide posted signs regarding proper hand hygiene before and after using the computers to minimize disease transmission. Also, consider using keyboard covers to protect the hardware against spills and facilitate cleaning.

- Label directions must be followed when using disinfectants to ensure the target viruses are effectively killed. This includes adequate contact times (i.e., the amount of time a disinfectant should remain on surfaces to be effective), which may vary between five and ten minutes after application. Disinfectants that come in a wipe form will also list effective contact times on their label.
- For disinfectants that come in concentrated forms, staff should carefully follow instructions for making the diluted concentration needed to effectively kill the target virus. This information can be found on the product label.

Disinfecting is the responsibility of school custodial staff. They are trained to use disinfectants in a safe and effective manner. Staff are reminded to ensure procedures for safe and effective use of all products are followed. Staff do not need to wear respiratory protection (e.g., masks) while cleaning. Safety instructions are listed on product labels and include the personal protective equipment (e.g., gloves) that should be used. Place all used gloves in a bag that can be tied closed before disposing of them with other waste. Wash hands with soap and water for at least 20 seconds immediately after removing gloves or use an alcohol-based hand sanitizer if soap and water are not available. Soap and water should be used if hands are visibly soiled.

*NYSDEC registration will not be listed on disinfection product labels. Information about disinfection product registration with NYSDEC can be found at: <http://www.dec.ny.gov/nyspad/products>. If you have any questions about NYSDEC pesticide registration, please call the NYSDEC Bureau of Pesticide Management at 518-402-8748.

More information:

New York State Department of Health's COVID-19 Webpage:
<https://www.health.ny.gov/diseases/communicable/coronavirus/>

Centers for Disease Control and Prevention Webpage:
<https://www.cdc.gov/coronavirus/2019-ncov/>

New York State Green Cleaning Program:
<https://greencleaning.ny.gov/>

Enhanced Green Cleaning Guidance To Reduce The Spread Of Communicable Disease:
https://greencleaning.ny.gov/DownloadCenter/Files/EnhancedGreenCleaningTrainingManual5_17_10.pdf

Appendix 6: Proper Hand and Respiratory Hygiene

Stop the Spread of Germs

Help prevent the spread of respiratory diseases like COVID-19.



[cdc.gov/coronavirus](https://www.cdc.gov/coronavirus)

Appendix 8: Cleaning and Disinfecting Your Facility

Cleaning And Disinfecting Your Facility

Everyday Steps, Steps When Someone is Sick, and Considerations for Employers

How to clean and disinfect

Wear disposable gloves to clean and disinfect.

Clean

- **Clean surfaces using soap and water.** Practice routine cleaning of frequently touched surfaces.



High touch surfaces include:

Tables, doorknobs, light switches, countertops, handles, desks, phones, keyboards, toilets, faucets, sinks, etc.



Disinfect

- Clean the area or item with soap and water or another detergent if it is dirty. Then, use a household disinfectant.
- **Recommend use of EPA-registered household disinfectant.** Follow the instructions on the label to ensure safe and effective use of the product.

Many products recommend:

- Keeping surface wet for a period of time (see product label).
- Precautions such as wearing gloves and making sure you have good ventilation during use of the product.

- **Diluted household bleach solutions may also be used** if appropriate for the surface. Check to ensure the product is not past its expiration date. Unexpired household bleach will be effective against coronaviruses when properly diluted.

Follow manufacturer's instructions for application and proper ventilation. Never mix household bleach with ammonia or any other cleanser.

Leave solution on the surface for **at least 1 minute**

Bleach solutions will be **effective** for disinfection **up to 24 hours**.

To make a bleach solution, mix:

- 5 tablespoons (1/3rd cup) bleach per gallon of water

OR

- 4 teaspoons bleach per quart of water

- **Alcohol solutions with at least 70% alcohol.**



Soft surfaces

For soft surfaces such as **carpeted floor, rugs, and drapes**

- **Clean the surface using soap and water** or with cleaners appropriate for use on these surfaces.



[cdc.gov/coronavirus](https://www.cdc.gov/coronavirus)

- **Launder items** (if possible) according to the manufacturer's instructions. Use the warmest appropriate water setting and dry items completely.

OR

- **Disinfect with an EPA-registered household disinfectant.** [These disinfectants](#) meet EPA's criteria for use against COVID-19.

Electronics

- For electronics, such as **tablets, touch screens, keyboards, remote controls, and ATM machines**
- Consider putting a **wipeable** cover on electronics.
- **Follow manufacturer's instruction** for cleaning and disinfecting.
 - If no guidance, **use alcohol-based wipes or sprays containing at least 70% alcohol.** Dry surface thoroughly.



Laundry

For clothing, towels, linens and other items

- Launder items according to the manufacturer's instructions. Use the **warmest appropriate water setting** and dry items completely.
- **Wear disposable gloves** when handling dirty laundry from a person who is sick.
- Dirty laundry from a person who is sick **can be washed with other people's items.**
- **Do not shake** dirty laundry.
- Clean and **disinfect clothes hampers** according to guidance above for surfaces.
- **Remove gloves**, and wash hands right away.



Cleaning and disinfecting your building or facility if someone is sick

- **Close off areas** used by the person who is sick.
- **Open outside doors and windows** to increase air circulation in the area. **Wait 24 hours** before you clean or disinfect. If 24 hours is not feasible, wait as long as possible.
- Clean and disinfect **all areas used by the person who is sick**, such as offices, bathrooms, common areas, shared electronic equipment like tablets, touch screens, keyboards, remote controls, and ATM machines.
- If **more than 7 days** since the person who is sick visited or used the facility, additional cleaning and disinfection is not necessary.
 - Continue routine cleaning and disinfection.



When cleaning

- **Wear disposable gloves and gowns for all tasks in the cleaning process, including handling trash.**
 - Additional personal protective equipment (PPE) might be required based on the cleaning/disinfectant products being used and whether there is a risk of splash.
 - Gloves and gowns should be removed carefully to avoid contamination of the wearer and the surrounding area.
- **Wash your hands often** with soap and water for 20 seconds.
 - Always wash immediately after removing gloves and after contact with a person who is sick.



- Hand sanitizer: If soap and water are not available and hands are not visibly dirty, an alcohol-based hand sanitizer that contains at least 60% alcohol may be used. However, if hands are visibly dirty, always wash hands with soap and water.

- **Additional key times to wash hands** include:

- After blowing one's nose, coughing, or sneezing.
- After using the restroom.
- Before eating or preparing food.
- After contact with animals or pets.
- Before and after providing routine care for another person who needs assistance (e.g., a child).

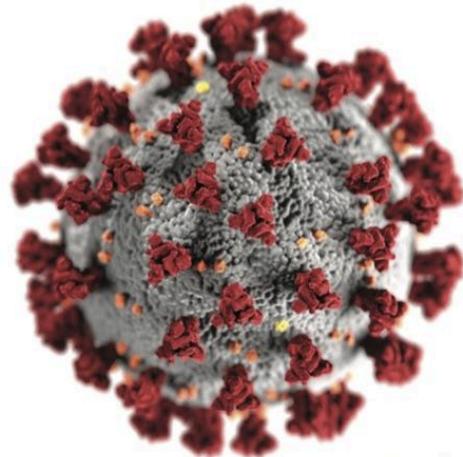
Additional Considerations for Employers



- **Educate workers** performing cleaning, laundry, and trash pick-up to recognize the symptoms of COVID-19.
- Provide instructions **on what to do if they develop symptoms within 14 days** after their last possible exposure to the virus.
- Develop **policies for worker protection and provide training** to all cleaning staff on site prior to providing cleaning tasks.
 - Training should include when to use PPE, what PPE is necessary, how to properly don (put on), use, and doff (take off) PPE, and how to properly dispose of PPE.
- Ensure workers are **trained on the hazards of the cleaning chemicals** used in the workplace in accordance with OSHA's Hazard Communication standard ([29 CFR 1910.1200](#)).
- **Comply** with OSHA's standards on Bloodborne Pathogens ([29 CFR 1910.1030](#)), including proper disposal of regulated waste, and PPE ([29 CFR 1910.132](#)).

For facilities that house people overnight:

- Follow CDC's guidance for [colleges and universities](#). Work with state and local health officials to determine the best way to isolate people who are sick and if temporary housing is needed.
- For guidance on cleaning and disinfecting the bedroom/bathroom for someone who is sick, review CDC's guidance on [disinfecting your home if someone is sick](#).



Appendix 9: Educational Videos and Resources about COVID and Emotional Resilience

Video Resources:

TEDEd [The coronavirus explained and how you can combat it](#)

[Coronavirus: How to Teach Kids About COVID-19 | BrainPOP](#)

Web Resources:

<https://www.cdc.gov/coronavirus/2019-ncov/daily-life-coping/talking-with-children.html>

- Suggestions by Age Group:

<https://www.unicef.org/coronavirus/how-teachers-can-talk-children-about-coronavirus-disease-covid-19#preschool-guidance>

<https://www.tolerance.org/supporting-students-through-coronavirus>

Science lessons:

<https://www.lifelige.com/blog/teach-your-students-about-covid-19-with-lifelige-lessons/>

- TEDEd Videos

[What is a coronavirus? - Elizabeth Cox](#)

[When is a pandemic over?](#)

Appendix 10: Regular Health Status Survey

Daily Home Screening for Students

Parents: Please complete this short check each morning and report your child's information [INSERT YOUR SCHOOL REPORTING INSTRUCTIONS] in the morning before your child leaves for school.

SECTION 1: Symptoms

If your child has any of the following symptoms, that indicates a possible illness that may decrease the student's ability to learn and also put them at risk for spreading illness to others. Please check your child for these symptoms:

<input type="checkbox"/>	Temperature 100.4 degrees Fahrenheit or higher when taken by mouth;
<input type="checkbox"/>	Sore throat;
<input type="checkbox"/>	New uncontrolled cough that causes difficulty breathing (for students with chronic allergic/asthmatic cough, a change in their cough from baseline);
<input type="checkbox"/>	Diarrhea, vomiting, or abdominal pain
<input type="checkbox"/>	New onset of severe headache, especially with a fever.

SECTION 2: Close Contact/Potential Exposure

<input type="checkbox"/>	Had close contact (within 6 feet of an infected person for at least 15 minutes) with a person with confirmed COVID-19: OR
<input type="checkbox"/>	Had close contact (within 6 feet of an infected person for at least 15 minutes) with person under quarantine for possible exposure to SARS-CoV-2; OR
<input type="checkbox"/>	Traveled to or lived in an area where the local, Tribal, territorial, or state health department is reporting large numbers of COVID-19 cases as described in the Community Mitigation Framework
<input type="checkbox"/>	New uncontrolled cough that causes difficulty breathing (for students with chronic allergic/asthmatic cough, a change in their cough from baseline);
<input type="checkbox"/>	Live in areas of high community transmission (as described in the Community Mitigation Framework) while the school remains open

Appendix 11: Contact Tracing Tool

Contact Tracing Tool for People Being Tested for COVID-19

If you test positive for COVID-19, you will get a call from a public health representative to identify any contacts you have had. This form can help you identify your contacts so you will be ready for the call.

STEP 1

Identify date of first symptoms

If you have had symptoms, put the date you first felt sick OR if you have had no symptoms then put your date of testing

_____ / _____ / _____
SUBTRACT 2 DAYS: _____ / _____ / _____ = YOUR CONTACT TRACING DATE

STEP 2

Who has been in your house with you since your contact tracing date?

Include people who live in your home, and people who may have visited like friends, a babysitter or anyone else providing in-home services.

	Name of Person	Date Last in Home	Their Phone Number
1			
2			
3			
4			
5			

STEP 3

Make a list of what you did each day since your contact tracing date with as much detail as possible.

Include things like hanging out with neighbors, going to work, running errands, appointments, social or recreational activities outside the house, and if you used public transportation to get there. Use another piece of paper if needed.

Day One: _____ / _____ / _____		People you were with		
Activity	Location	Name	Address	Phone Number

Day Two: _____ / _____ / _____		People you were with		
Activity	Location	Name	Address	Phone Number

Day Three: _____ / _____ / _____		People you were with		
Activity	Location	Name	Address	Phone Number

Day Four: _____ / _____ / _____		People you were with		
Activity	Location	Name	Address	Phone Number

Appendix 12: Interim Guidance for Public and Private Employees Returning to Work Following COVID-19 Infection or Exposure



**Department
of Health**

ANDREW M. CUOMO
Governor

HOWARD A. ZUCKER, M.D., J.D.
Commissioner

SALLY DRESLIN, M.S., R.N.
Executive Deputy Commissioner

May 31, 2020

Interim Guidance for Public and Private Employees Returning to Work Following COVID-19 Infection or Exposure

Purpose

This interim guidance is intended to inform employers as restrictions on private and public sector activities are scaled back in different regions of the state throughout the COVID-19 public health emergency. This guidance is not intended for health care or nursing home professionals, which have separate protocols and guidance for staff to return to work. Specifically, this guidance provides protocols and policies for employees seeking to return to work after a suspected or confirmed case of COVID-19 or after the employee had close or proximate contact with a person with COVID-19.

Background

On March 7, 2020, Governor Andrew M. Cuomo issued Executive Order 202, declaring a state of emergency in response to COVID-19 as community transmission of the virus occurred throughout New York. To minimize further spread, social distancing of at least six feet must be maintained between individuals, where possible.

On March 20, 2020, Governor Cuomo issued Executive Order 202.6, directing all non-essential businesses to close in-office personnel functions. Essential businesses, as defined by Empire State Development Corporation (ESD) guidance, were not subject to the in-person restriction, but were, however, directed to comply with the guidance and directives for maintaining a clean and safe work environment issued by the New York State Department of Health (DOH).

On April 26, 2020, Governor Cuomo announced a phased approach to reopen industries and businesses in New York in phases based upon a data-driven, regional analysis. On May 4, 2020, the Governor provided that the regional analysis would consider several public health factors, including new COVID-19 infections, as well as health care system, diagnostic testing, and contact tracing capacity. On May 11, 2020, Governor Cuomo announced that the first phase of reopening would begin on May 15, 2020 in several regions of New York, based upon the previously identified regional metrics and indicators. On May 29, 2020, Governor Cuomo announced that the second phase of reopening would begin in several regions of New York.

Return to Work

As employers slowly begin to return employees back to the workplace, diligence must be paid to the health and safety of employees, especially for those employees that previously tested positive for COVID-19 or had close or proximate contact with a person with COVID-19 for a prolonged period of time.

Employers and employees should take the following actions related to COVID-19 symptoms or exposure:

- If an employee tests positive for COVID-19, regardless of whether the employee is symptomatic or asymptomatic, the employee may return to work upon completing at least 10 days of isolation from the onset of symptoms or 10 days of isolation after the first positive test if they remain asymptomatic.

10/28 COVID TASK FORCE CONCLUSIONS

Items addressed, with insight from parent representative, doctor and medical director for 3 school districts, school administration, and a teacher:

1. **How to move forward with covid positive cases on campus:**

If a Covid positive person was on campus within 48 hours prior to becoming symptomatic or testing positive, we will not immediately move entire cohorts online. Information will be gathered from all teachers to determine if anyone needs to be considered a close contact. Information on age of person, whether the person was symptomatic on campus or not, whether there were group activities that would bring the students closer than 3 feet for a longer period of time, and whether the person was on the bus or in carpool are all factors to determine close contacts. Some general determinations:

1. **Classrooms-** All classmates will not be considered immediate close contacts. All students eat 6 feet apart. Classrooms are marked for 3 foot distancing, teachers support distancing in classrooms, and students maintain that for enough of the day that a classroom meets the exemption laid out by NY State “less than 3 foot distance for a cumulative of 15 minutes or less”. Information gathered will help us determine who is to be considered a close contact. Families are welcome to test their children who are not considered close contacts, but the school will not require it.
2. **Bus students** - Bus students within the potential 3 foot range will be considered close contacts, while others will not. The school will have a seating chart and correlate it with attendance to determine who is a close contact from buses.
3. **Carpool students** - Carpool mates do not meet the exemption of being less than 3 feet for a cumulative total of 15 minutes or more, and therefore will be considered close contacts.

CLOSE CONTACT PROTOCOL:

- Students on the Glen Spey campus that are determined to be close contacts will need to quarantine for the full 10 day period and accommodations will be made for their learning while in quarantine by their teachers.
- Close contacts on the CCHS campus that are vaccinated will not be asked to quarantine, but to look for symptoms for two weeks, and are asked to have a PCR test if symptoms occur or at day 5 if asymptomatic. Unvaccinated close contacts will be asked to quarantine.
- We will only shut down an entire cohort if we find that the majority of a cohort has tested positive for Covid.

2. **When to test:** If a person on campus exhibits 1 Covid-like symptom or more, the person is required to get a Covid test, even with a doctor's alternative diagnosis. This is mandated by Sullivan County.
3. **How to handle illness on campus.** A person on campus should not be on campus if contagious with any illness. A person on campus needs to be fever free for 24 hours and their symptoms need to be improving before returning. A covid positive person needs to be fever free for 24 hours and symptom free for 3 days before returning to campus.
4. **Allergies/when to know when the kid is sick or not?** If the school has an alternative diagnosis for the person by a physician with a history of seasonal allergies- cough, congestion, sneezing- then those symptoms will not qualify as a trigger to get a test during their allergy season (after a covid negative result is obtained once in correlation with the symptoms.) If the person has an extra symptom, they need to covid test. It's not allergies when a person has an additional symptom such as a headache, fatigue, fever, etc.
5. **Outdoor masking** - We will continue to mask outdoors unless outdoor activity is planned to have spacing and it is monitored closely, because recess is a time that kids are social, get very close to each other, and are face to face laughing and speaking loudly. We know that masks get wet, then kids touch their masks, so we will continue to look at finding balance with outdoor masking.
6. **Mask breaks** are happening but can be happening more at school. We will continue to consistently offer activities in which the children are outdoors, distanced, and unmasked so they can really see each other.
7. **Screening Testing on campus?** Affinity, the company that many Sullivan County districts are partnering with for weekly screen testing for staff, has been contacted but we have not gotten far in discussion with them about regular, voluntary testing of staff and/or students on our campus. We are researching saliva testing and PCR nasal swab testing before we decide how to proceed. We have received mixed input on both types of tests from other schools.
8. **Vaccine-** The vaccine for children under the age of 12 will be available soon. NY State has not mandated the vaccine for students, and Homestead will not mandate a vaccine for children if the state has not mandated it. This is our current response, and as always, we look to research and available information to make the best decisions for our school community.
9. **Thanksgiving/holiday visits:** Please follow CDC guidance for visiting with people outside of your family and for travel. CDC recommends that unvaccinated individuals mask indoors when with individuals outside of your family, so you all can decide if you will have the kids masked with each other, or if you all want to have all parties obtain a negative Covid result right before gathering together unmasked and Covid test before coming back on campus. We ask that members of the community continue to do their utmost to keep the community safe.
10. **Tipi usage this year:** Thus far, teachers have been spending outdoor time exploring the campus more than using the tipis. With more knowledge than last year about the distance needed to prevent the spread of Covid, we feel that the tipis are a wonderful place to offer maskless lessons. We can keep students 6 feet apart, and there is very good air circulation in the tipis, so each class will be using them for short periods of time with small groups to offer maskless lessons. You do not need to send a blanket in this year. The blankets got damp and

are hard to store in classroom spaces, so we will ask families to dress their children in layers as we did last year, but there is no need to send in blankets. We will be heating the tipis, so between the heat going, the students having layers, and the lessons being timed for student comfort, time in the tipis will provide opportunities for intimate lessons as well as maskless time with their peers and teachers.

11. **Parent input on vaccine status:** We have had parents ask for information about the vaccine status within our community. We will send out a survey to all families to collect data on the percentage of families that are vaccinated. The survey will be completely voluntary, completely anonymous, and we will just gather the data into statistics and share the statistics with the community.
12. **Parent desire for bulk rapid test purchase:** Hali is looking into the potential of buying rapid tests in bulk, so families can purchase 5 or so tests to keep at home. She will reach out with information as she gets clarity on how our parent community can proceed, if interested.

11/3 Covid Update:

- 1) **Covid Test Required for an unvaccinated student whose unvaccinated household member is a close contact:** What we saw last year and still are seeing is that covid spreads through families very easily, given that we don't mask and distance with our family members. We also know that unvaccinated individuals are more likely to get Covid than vaccinated individuals.
<https://www.cdc.gov/coronavirus/2019-ncov/science/science-briefs/fully-vaccinated-people.html>

So for the safety of students on campus, if an unvaccinated household member of an unvaccinated student becomes a close contact (and is quarantining at home), we ask that the unvaccinated student present a negative covid result daily for return to campus until the close contact receives and submits a negative PCR result to the school. Students in this situation are absolutely welcome back on campus with the assurance that the student is not covid positive each day that they attend school. If the family would prefer not to test the child, we'd ask that the student remain off campus until the close contact has received a negative PCR test result. Administration will continue to connect with, guide, and support families on how to move forward following protocols outlined by the school given in their particular situation.

We hope that all family members see the value in this "test to stay" policy.

- 2) **Vaccination records once your child is vaccinated for covid:** We ask that families submit proof of vaccination for covid as with all vaccinations. This will help us guide families on protocol as we still traverse these covid contact situations. We are working with the Covid task force on how to advise parents if a child becomes symptomatic after receiving the vaccine.

11/5 Covid Updates:

After the Covid case on campus, this request was sent to the families of all unvaccinated students considered close contacts: *If you are willing to have your child do a PCR test around*

Monday, November 8, it will give us peace of mind, as well as information on the likelihood of spread for situations similar to this in the future.

11/12 Covid Updates:

After a case in the community, at an afterschool activity outside of school, with both vaccinated and unvaccinated Homestead students were informed that they were in contact with a Covid positive person.

	<p>If you come into close contact with someone with COVID-19 and you are unvaccinated or not fully vaccinated.</p>	<p>If you come into close contact with someone with COVID-19 and you are fully vaccinated.</p>	<p>If you come into close contact with someone with COVID-19 and you have tested positive for the virus that causes COVID-19 within the past 90 days and recovered (regardless of vaccination status).</p>
<p>You should get tested</p>	<p>You should get tested immediately after finding out you are a close contact. If you need help, health department staff can provide information about the best time to get a vaccine and resources for COVID-19 testing and vaccination your area.</p> <p>If your test result is negative, get tested again 5-7 days after your last exposure or immediately if symptoms develop.</p> <p>If your test result is positive, you have COVID-19 and should isolate for 10 days.</p>	<p>If you are fully vaccinated and become infected, you can spread the virus to others. Get tested immediately if you develop symptoms. Even if you don't have symptoms, you should get tested 5-7 days after your exposure.</p> <p>If you need help, health department staff can provide information about the best time to get a vaccine and resources for COVID-19 testing in your area.</p> <p>If your test result is positive, you have</p>	<p>If you develop symptoms, consult with a healthcare professional for testing recommendations.</p>

COVID-19 and should [isolate](#) for 10 days.

You should monitor your symptoms	Monitor your symptoms . If you have an emergency warning sign (including trouble breathing), seek emergency medical care immediately. Get tested immediately if you develop symptoms.	Monitor your symptoms . If you have an emergency warning sign (including trouble breathing), seek emergency medical care immediately. Get tested immediately if you develop symptoms.	Monitor your symptoms . If you have an emergency warning sign (including trouble breathing), seek emergency medical care immediately. If you develop symptoms, consult with a healthcare professional for testing recommendations.
You should wear a mask	As a close contact, you should wear a mask correctly and consistently at all times.	As a close contact, you should wear a mask indoors in public for 14 days following exposure or until your test result is negative.	As a close contact, you should wear a mask indoors in public for 14 days following exposure.
You should minimize contact with others	As a close contact, you should stay home and away from others (quarantine) for 14 days from the date of your last known exposure to a person with COVID-19 and follow the quarantine steps.	As a close contact, you do not need to quarantine. You should wear a mask indoors in public for 14 days following exposure or until your test result is negative.	As a close contact, you do not need to quarantine. You should wear a mask indoors in public for 14 days following exposure.
You may get a call from a healthcare worker or your close contact	A public health worker, other professional, or the person you came into close contact with, may tell you that you are a close contact and have been exposed to COVID-19.	A public health worker, other professional, or the person you came into close contact with, may tell you that you are a close contact and have been exposed to COVID-19.	A public health worker, other professional, or the person you came into close contact with, may tell you that you are a close contact and have been exposed to COVID-19.