



# COVID-19 Testing

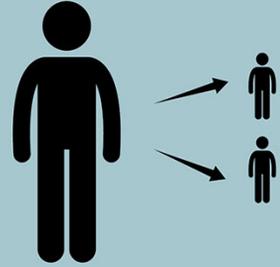
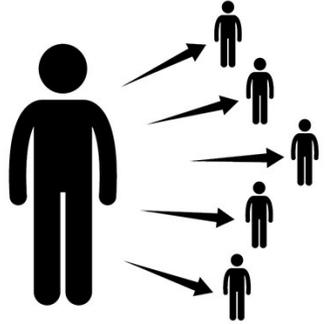
2021-2022 School Year

# Background

- Delta variant is the predominant strain of COVID-19 in the United States
  - 2x more infectious than previous strains
- Data suggests the Delta variant can cause more severe illness than previous strains in unvaccinated individuals\* (CDC D, 2021).
  - COVID-19 vaccinations are not yet FDA approved for children under 12 years old. (CDC B, 2021) Those who are unvaccinated are at the greatest risk for contracting and transmitting COVID-19 (CDC D, 2021).

\*COVID-19 is still a risk if you are vaccinated. Vaccination prevents severe illness, hospitalization and death (CDC F, 2021).

**The Delta variant is more contagious than previous strains—it may cause more than **2x** as many infections**

ORIGINAL COVID-19 STRAIN	DELTA VARIANT
	

**Vaccines protect you from hospitalization, severe infections, and death**

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

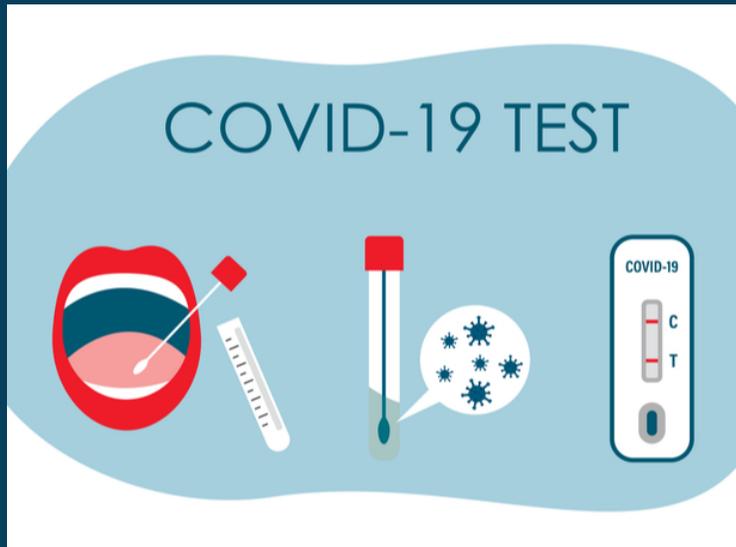
CS 322041-AA 08/02/2021

# What is Erie County's Plan?

- Funded by Epidemiology and Laboratory Capacity (ELC) through Center for Disease Control & Prevention (CDC) to promote in person learning, 5 days a week through a COVID-19 testing initiative
- Erie County is implementing a Surveillance testing and a Proximal testing program (see next two slides for additional information)
- Districts and Schools coordinate with ECDOH to make this possible
- Quadrant Biosciences laboratory and ECDOH have partnership – tests will be run through them locally
- ECDOH will provide medical staff through Buffalo Homecare to districts and schools to oversee testing
- Parents complete one-time consent form through Quadrant Biosciences to opt-in to these programs

# What is Surveillance Testing?

- Surveillance testing utilizes pooled samples of a certain population for the purpose of monitoring and containing the spread of COVID-19 in a classroom setting (CDC G, 2021).
- Anyone in the school population can be tested
- No cost, regardless of insurance



McKee, S. (2021). COVID-19 TEST [Photograph]. Retrieved from [http://www.pharmatimes.com/news/twice-weekly\\_coronavirus\\_tests\\_for\\_all\\_1366382](http://www.pharmatimes.com/news/twice-weekly_coronavirus_tests_for_all_1366382)

## What is Pool Testing?

- The CDC defines pool testing as combining the same type of specimen from several people and conducting one laboratory PCR test
  - For pools that test positive, samples are individually analyzed to determine which samples are positive (CDC E, 2021)
- For this program, pools are up to 12 specimens

# What is proximal testing?

- Proximal pool testing is testing for individuals who do not meet close contact criteria (see next slide) and were exposed to COVID-19 in the same room.
- Purpose:
- Identify if transmission has occurred and remove risk to protect the overall building
  - Delta Variant's incubation period is 3-5 days
    - False positives are higher in specimens with low viral loads, low viral loads occur when folks are tested either too soon or too late after infection (Syal, 2020).
    - Incubation period is the time between exposure to a positive case and development of symptoms, if not asymptomatic (CDC A, 2021).
- The risk for transmission to a proximal contact is lower than those who meet close contact criteria, but there is still a risk

# Difference between close contact in a school setting & proximal contact

## Close Contact (school setting)

- Identified to have been within 3ft or less of a positive COVID-19 case for a cumulative total of 15 minutes or more over a 24 hour period, with or without a mask
- Subject to 10 day quarantine\*
- Substantial exposure risk to COVID-19
- Testing recommended 3-5 days after exposure to a positive COVID-19 case

## Proximal Contact

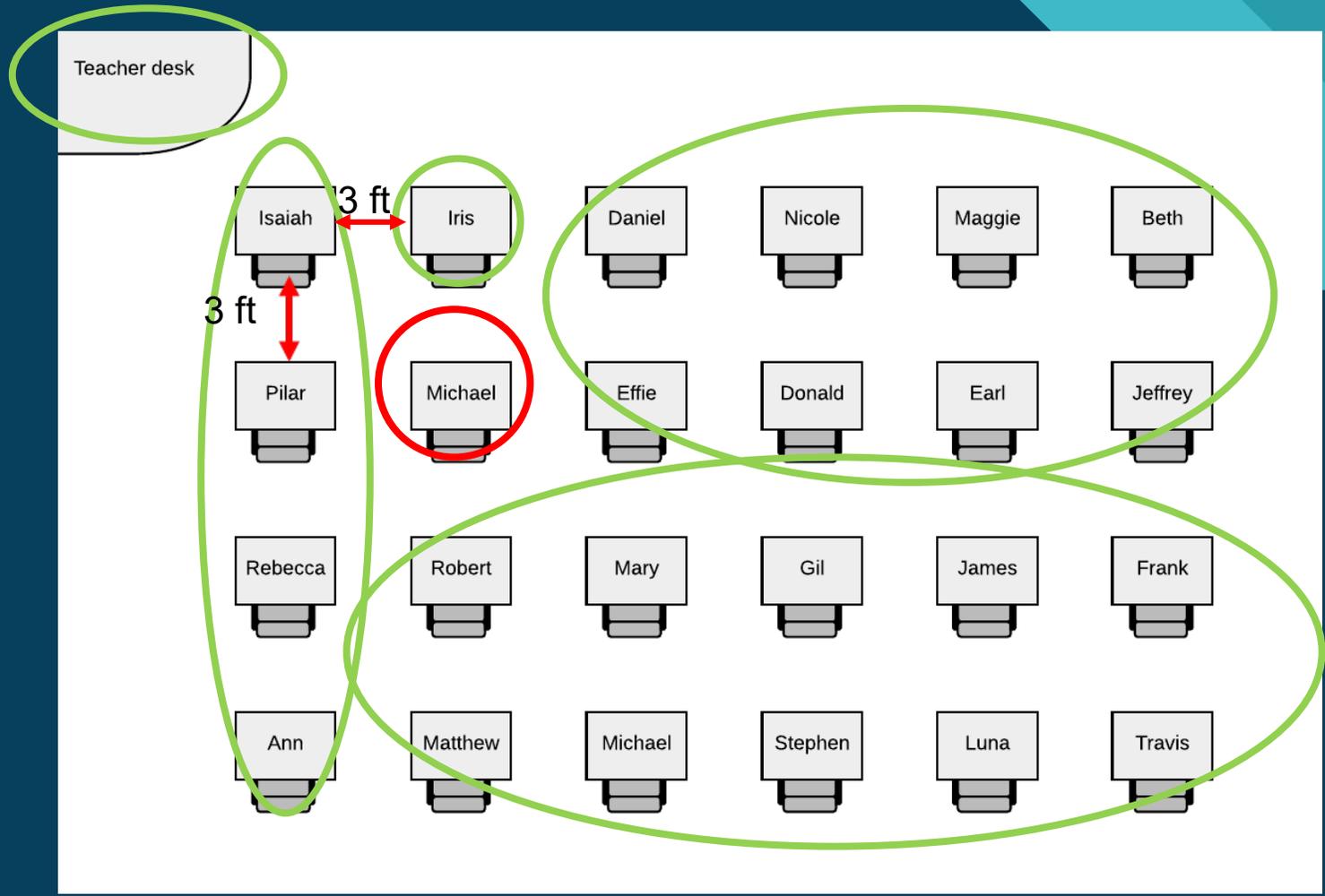
- Anyone who is outside of the 3ft range in the same airspace not considered to be a close contact is considered a proximal contact
- Not subject to quarantine\*\*, fully vaccinated can still test
- Still a risk of exposure & transmission of COVID-19
- Testing recommended 3-5 days after exposure to a positive COVID-19 case

\* Per CDC guidelines, fully vaccinated individuals who are identified as close contacts are not subject to quarantine. However, these individuals should continue to monitor for symptoms.

\*\*If experiencing COVID-19 symptoms, individual must follow return to school protocol.

# Who is eligible for proximal testing? - Example

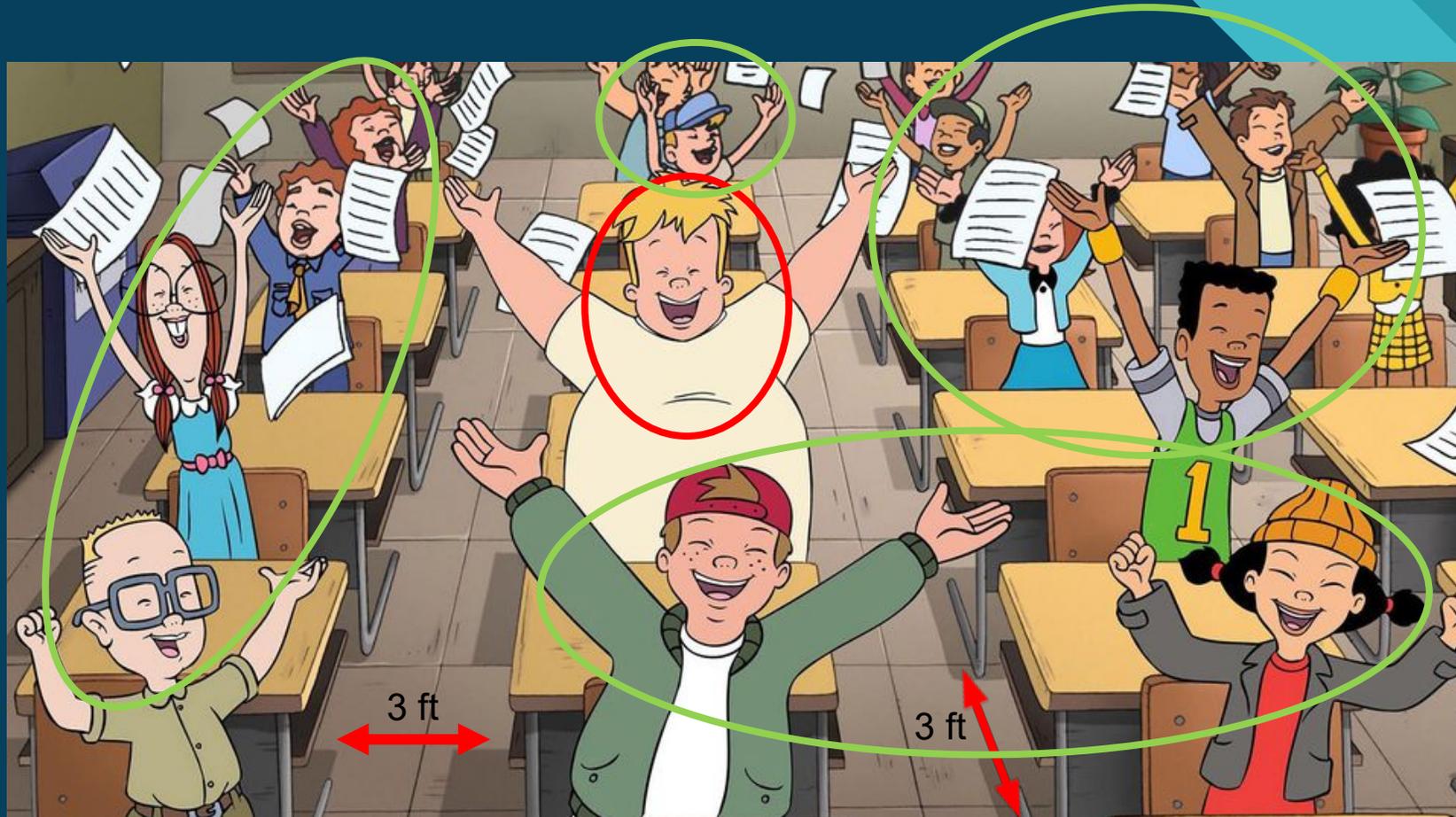
-  = positive COVID-19 case
-  = individuals eligible for proximate testing



Lucidchart (n.d.). High School Classroom Layout [Photograph]. Retrieved from <https://www.lucidchart.com/blog/perfecting-classroom-seating-arrangements>

# Who is eligible? - Example cont.

-  = positive COVID-19 case
-  = individuals eligible for proximate testing



Wilkinson, M (2020). Disney+: Ranking The Main Characters of Recess By Their Intelligence [Photograph]. Retrieved from <https://screenrant.com/disney-plus-recess-main-characters-ranked-intelligence/>

# How testing will be implemented

## Surveillance Testing

- 10% of the consented population in a school will be tested weekly
- PCR pool testing, 12 tests per pool
- 12-18 HR turn around time
- ORAL swab

## Proximal Testing

- First, contact tracing is completed to identify any true close contacts. After close contacts are identified, proximal contacts are determined
- Testing occurs 3-5 days after exposure
- PCR Pool testing, about 12 tests per pool
- 12-18 HR turn around time
- ORAL swab

- If a positive is detected in either the surveillance testing pool and/or proximal testing pool, reflex testing performed. Reflex testing determines which sample in the pool is positive.
- School building coordinators will communicate with parents of those tested if pool is positive.

# Benefits of testing

## Surveillance

## Both

## Proximal

- Monitors current state of COVID-19 virus in the school population (CDC G, 2021).

- Can identify those who have contracted COVID-19 before classroom spread can occur
  - Positive individuals for COVID-19 are able to spread the virus 2 days before symptoms start (CDC C, 2021). By removing that individual from the school setting, it can stop the spread to other students and staff.
- Promotes in person learning
- PCR test is more accurate than rapid & at home tests
- Non invasive test (oral swab)

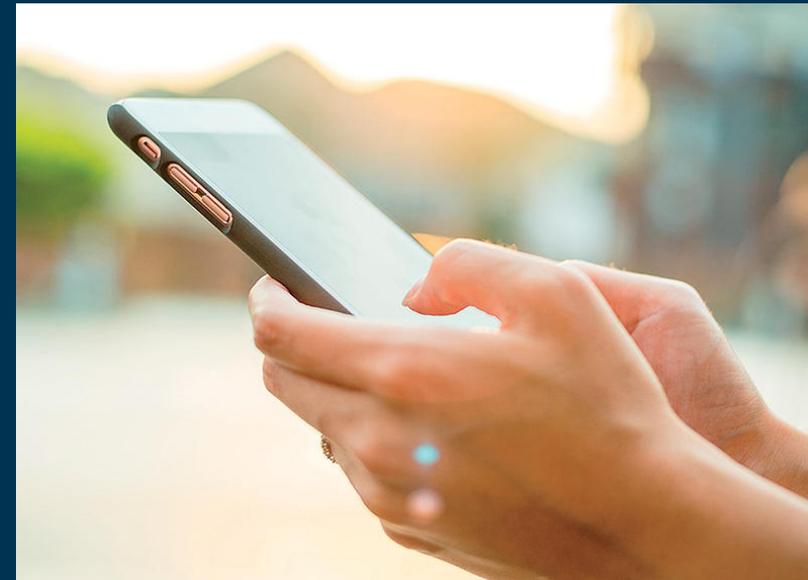
- Higher community support than traditional surveillance testing, according to a needs assessment survey sent to all Erie County Schools in June/July 2021
- With current guidance, proximal contacts do not have to quarantine because they are greater than 3ft away from positive case. Since airspace is shared, there is risk for continual exposure.

# Erie County Resources

- [www.erie.gov/covid19](http://www.erie.gov/covid19)
  - COVID-19 Info Line: (716) 858-2929
- [www.erie.gov/vax](http://www.erie.gov/vax)
  - Full schedule of ECDOH clinics
- [www.erie.gov/covidmap](http://www.erie.gov/covidmap)
  - Data visualization: case counts, ZIP code and municipality maps
- [www.erie.gov/covidtestsites](http://www.erie.gov/covidtestsites)
  - Searchable map of diagnostic test locations

# How to Stay Updated

- Social media
  - Twitter (@ECDOH)
  - Facebook (Erie County Department of Health)
  - Instagram (@eriecohealth)
  - Erie County, NY Youtube Channel  
[www.youtube.com/eriecountyny](http://www.youtube.com/eriecountyny)
- Web site: [www.erie.gov/covid19](http://www.erie.gov/covid19)



Craig, D (2019). Do Cell Phones Reduce Violent Crime? [Photograph]. Retrieved from <https://magazine.columbia.edu/article/do-cell-phones-reduce-violent-crime>

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