

Teacher Guide

The tabs in the StoryMap provide the overarching topics that students can choose to investigate, but each topic has multiple areas of focus, which are outlined in the Topic Generator. Students will investigate how demographics can affect the impact that COVID-19 has on a particular population. Cumulative COVID-19 levels will serve as the foundation of the investigation, but students can choose another factor they wish to investigate.

Instruct the students to pick at least 1 topic and 1 focus area. This constitutes the most basic level of investigation and is listed as a Level 1 Investigation (see the table on the right). While there is evidence to suggest that aspects of ALL the StoryMap tabs can intersect to impact each individual differently, modelling that in this manner can quickly become difficult. As such, it is advised that students only go up to a Level 3, where they are investigating the intersection of 3 different topics. The consideration of the addition of another topic or focus, however, could serve as a valuable extension, conclusion, or exit ticket. The more specific topic choices will help students narrow in on data.

Level 1: COVID-19 + one topic (ex. COVID-19 + Race)

Level 2: COVID-19 + two topics (ex. COVID-19 + Race + Poverty Rates)

Level 3: COVID-19 + three tabs (ex. COVID-19 + Race + Poverty Rates + Income)

Level 4: COVID-19 + four topics (ex. COVID-19 + Race + Poverty Rates + Income + Pollution Levels)

Level 5: COVID-19 + five topics (ex. COVID-19 + Race + Poverty Rates + Income + Pollution Levels + Access to Testing)

Level 6: COVID-19 + 6 topics (ex. COVID-19 + Race + Poverty Rates + Income + Pollution Levels + Access to Testing + Age)

Types of Topics for Investigation:

1 topic & 1 focus ex. Topic: Race Focus: Black/African American

Compare 2 topics & 2 corresponding foci ex. Topic 1: Race Focus 1: Black/African American Topic 2: Income Focus 2: Avg. Income \$50,000-\$74,999

Compare 1 topic & 2 foci of that topic ex. Topic: Race Foci: Black/African American vs. Caucasian

Compare 3 topics & 3 corresponding foci ex. Topic 1: Race Focus 1: Black/African American Topic 2: Poverty Line Focus 2: High Rates of Poverty Topic 3: Pollution Levels Focus 3: High Levels

Compare 1 topic & corresponding focus with 2nd topic and 2 foci ex. Topic 1: Race Focus 1: Black/African American Topic 2: Pollution Levels Focus 2: High vs. Low Levels of Pollution

Teacher Guide - Sample Topics & Questions

Level 1 Investigation Sample Topics:

Intersection of race (either single race or multiple races) and income.

Intersection of pollution rates and age (could also pick specific age group or groups to focus on).

Intersection of race (either single or multiple races) and access to COVID-19 testing (have student define 'reasonable distance' for testing & count testing centers within that distance for particular region).

Sample Comparison Topics (Level 2 or 3):

Compare access to COVID-19 testing with levels of poverty and the demographics for a particular region. **(Level 3)**

Compare high vs low incomes to surrounding poverty line for a particular region and the demographics there, such as age or race. **(Level 3)**

Compare racial breakdown with multiple regions and other demographics, such as age or income. **(Level 2)**

Compare high versus low values of pollution for a particular region and the demographics, such as age, race, or income. **(Level 2)**

Sample Questions (based on peer-reviewed research published during the pandemic):

How does COVID-19 affect those who are Black/African American versus those who are Caucasian?

How does COVID-19 affect those who are both Black/African American and under the poverty line?

How does COVID-19 affect those who are Latinx and are exposed to high levels of air pollution?

How does COVID-19 affect those who have a high average household income versus those who have a low average household income?

How does COVID-19 affect those who are older than 65 years of age and who don't have close access to a testing center (within 15 miles)?

How does COVID-19 affect those who are below the poverty line and who don't have ready access to COVID testing?

Teacher Guide - *Who Is Most Affected By COVID-19?* StoryMap Instructions: Overview

Who is Most Affected By COVID-19? A Story Map

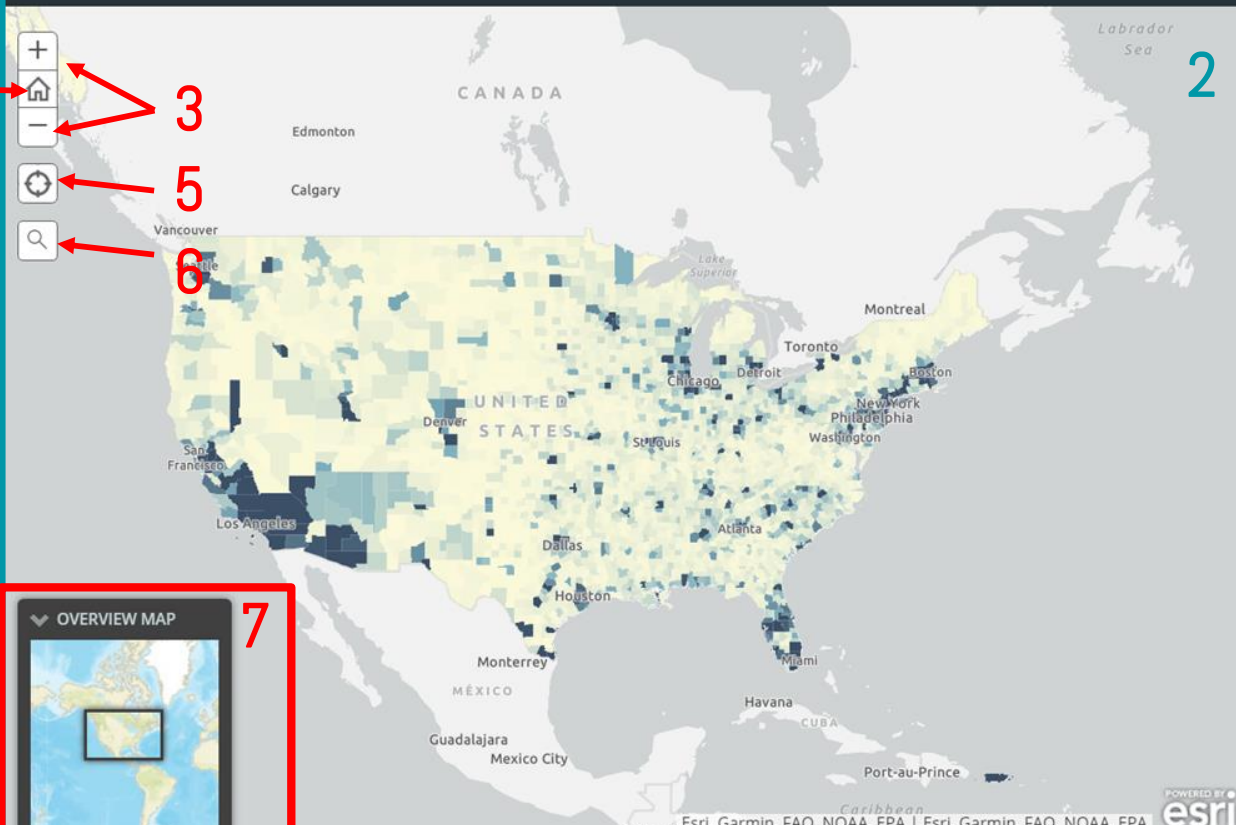
1 Cumulative COVID-19 Case Trends

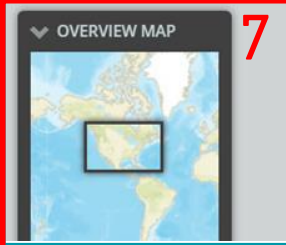
4 

3  

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6 

2 

7 

Picture: Central Park in New York is being used as a spot to host a temporary hospital for overflow patients with COVID-19. [Source](#)

Map Details

Map shows the cumulative COVID-19 cases per county over

Does Access To COVID-19 Testing Matter?

POWERED BY 

1. StoryMap Tabs - scroll to view all 7 tabs and select a tab to open it and view more information.
2. Map Area - interactive map. Hover over map and scroll in/out to zoom. Click on locations for more information.
3. Zoom In/Out - press + to zoom in and - to zoom out.
4. Home Button - press to go to "home" location.
5. Location Button - press to use the computer's location services to drop a pin on user's current location.
6. Search Function - search for a location on the map.
7. Overview Map - see a zoomed out view of the map.

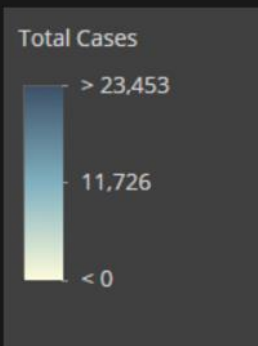
Teacher Guide - *Who Is Most Affected By COVID-19?* StoryMap Instructions: Tab Features

Cumulative COVID-19 Case Trends

Map Details

Map shows the cumulative COVID-19 cases per the course of the pandemic.

Legend: COVID-19 Case Totals



Cumulative COVID-19 Case Trends

Instructions For Use

Zoom out on the map to view overall state state zoom in to see the data per county. Click on a county, or city for information regarding the numbers, severity of the pandemic, the number of cases, the population, and the date of the most recent COVID-19 case.

Data Details

As identified by the [New York Times](#) (updated 2020), the following is a list of cities that have the highest cumulative cases throughout the pandemic. New York City (currently 349th for cumulative cases), however, it was one of the top spots in the United States and has since been a national benchmark for comparison.

Click on the links to zoom in on the map:

1. [New York, NY](#)

Making Connections

Where are the highest number of COVID-19 cases? Where are the lowest number of COVID-19 cases? Consider who lives in each of these places and how factors like access to testing, average household income, poverty rates, race, age, and exposure to air pollution could impact the levels of COVID-19.

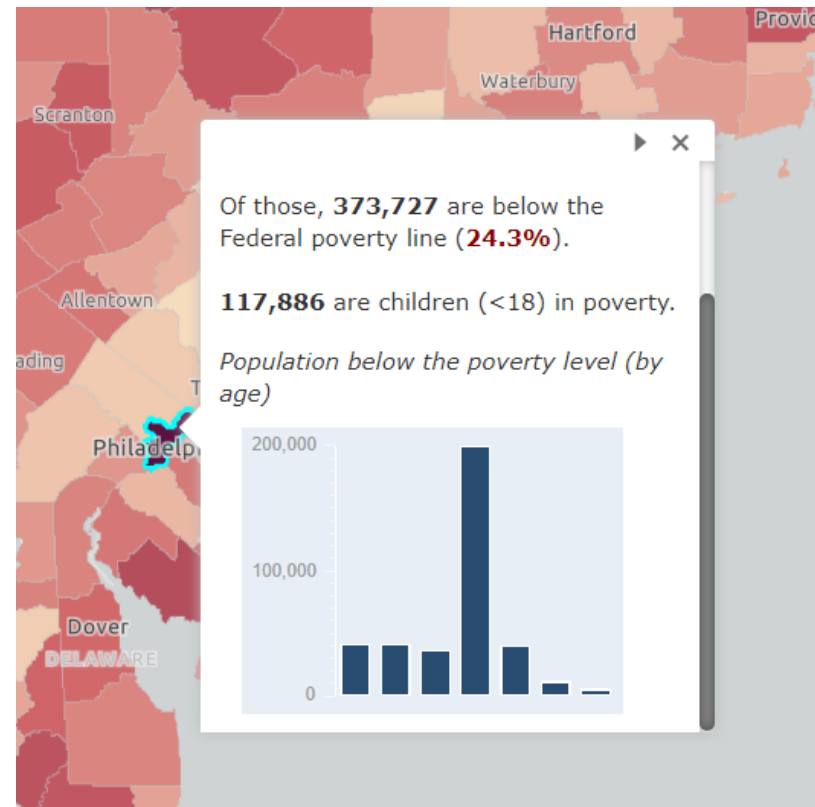
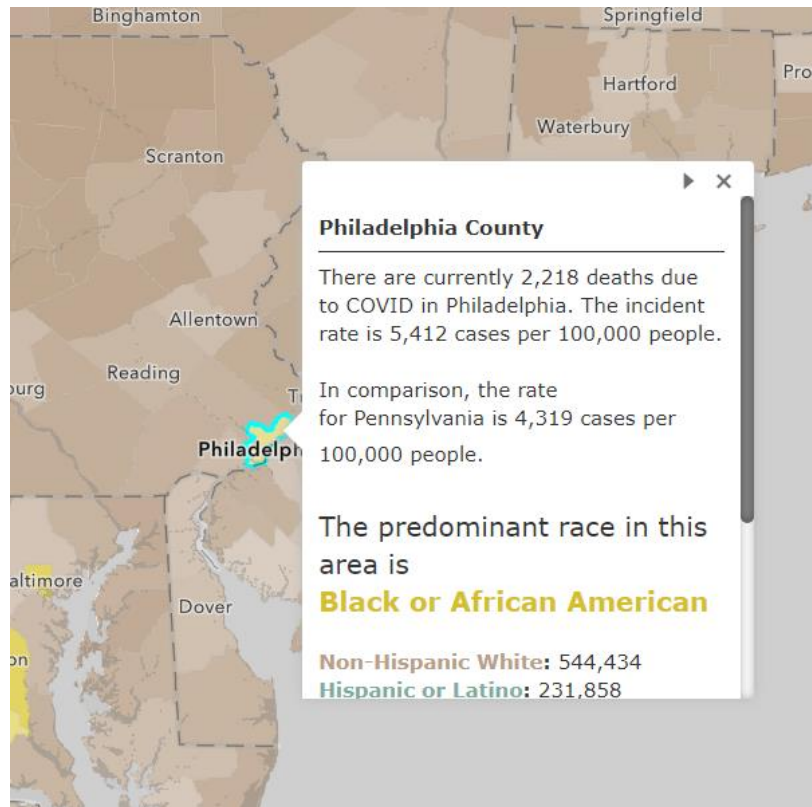
Date collected by [Johns Hopkins University CSSE](#) that also appear in their [US Cases by County dashboard](#) and [USAFacts for Utah County level Data](#).

* The COVID-19 Case Trends tab contains a list of the top 10 cities with the highest cumulative COVID-19 case numbers, as identified by the New York Times. Each city is linked, so clicking on the name will focus the map on that location.

Each tab contains the following sections:

1. **Map Details** - outlines the contents of the map.
2. **Legend** - explains the meaning of the colors, shading, symbols, etc.
3. **Instructions For Use** - instructions on how to operate the map in the tab.
4. **Data Details** - details regarding the data contained in the map and the map's pop-ups.
5. **Making Connections** - questions and considerations to guide students in making connections between the StoryMap tabs.
6. **Sources & More Information** - links to data sources used in the map and to additional information and tools regarding the tab content.

Teacher Guide - *Who Is Most Affected By COVID-19?* StoryMap Instructions: Map Pop-Ups



For every location that is clicked, a pop-up will appear detailing the statistics of that location. This information varies by map, however most identify the total population for that region and contain a breakdown of the data by population. Some pop-ups, like those in the *Does Income Matter?* tab, contain graphs that compare data over time. Hover over the graph area to see additional information.