Name(s)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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|  | **Activity Guide - Big, Open, and Crowdsourced Data** |  |

## Background

Today you will research one of three topics at the intersection of data analysis, computing, and society. These topics all use the data analysis process in new and interesting ways to address problems.

|  |  |  |
| --- | --- | --- |
| **Topic** | **Links** | **Key Vocabulary to Look For** |
| **Topic 1**  **Big Data** | * AI and Parallel Systems <https://www.youtube.com/watch?v=1XGo8K1boH4> * Big Data and Medicine Code.org <https://www.youtube.com/watch?v=bMrDHtGHFR4> | Scalability  Parallel systems |
| **Topic 2**  **Crowdsourced Data** | * How Pokemon Inspired A Citizen Science Project... <https://www.npr.org/2018/04/20/597972310> * What is Citizen Science? <https://youtu.be/81hhecI0p5k> | Citizen science  Crowdsource |
| **Topic 3**  **Open Data** | * What is Open Data? <https://www.youtube.com/watch?v=qSD9ob8rGcs> * The Case for Open Data <https://www.youtube.com/watch?v=iOrPK7p2AwI> | Open data  Open access |

What topic did you choose? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

As you watch the videos keep notes on examples of how they complete each step of the data analysis process.

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| --- | --- | --- | --- |
| **Collect or Choose Data** | **Clean and/or Filter Data** | **Visualize and Find Patterns** | **New Information** |

What is the core idea of your topic? What is it about?

Give two examples of the problems / questions your topic is being used to solve / answer.