

Post-Lecture Activity

For this activity you are going to use what we've learned about scatterplots and lines of best fit to investigate a project of your choosing.

First you will find something you want to investigate. It can be something related to COVID (there is LOTS of data out there for you to use) or something else of interest to you.

You can often find data in lots of places including Statistics Canada:

<https://www150.statcan.gc.ca/n1/en/type/data?MM=1>

You can also collect your own data by designing and running an experiment; like measuring the number of cars stopped at an intersection and for how long to help improve traffic flow in your community.

Once you have your data plot it, either by hand or using technology, and try to create your line of best fit. Then determine the equation of the line.

Then answer these questions:

- What can this equation and line tell you?
- What data can you infer (or predict) from it?
- What happens if you change different points of data? How does this affect the outcome?
- What if you start from the outcome you want to see? What needs to change to get there?