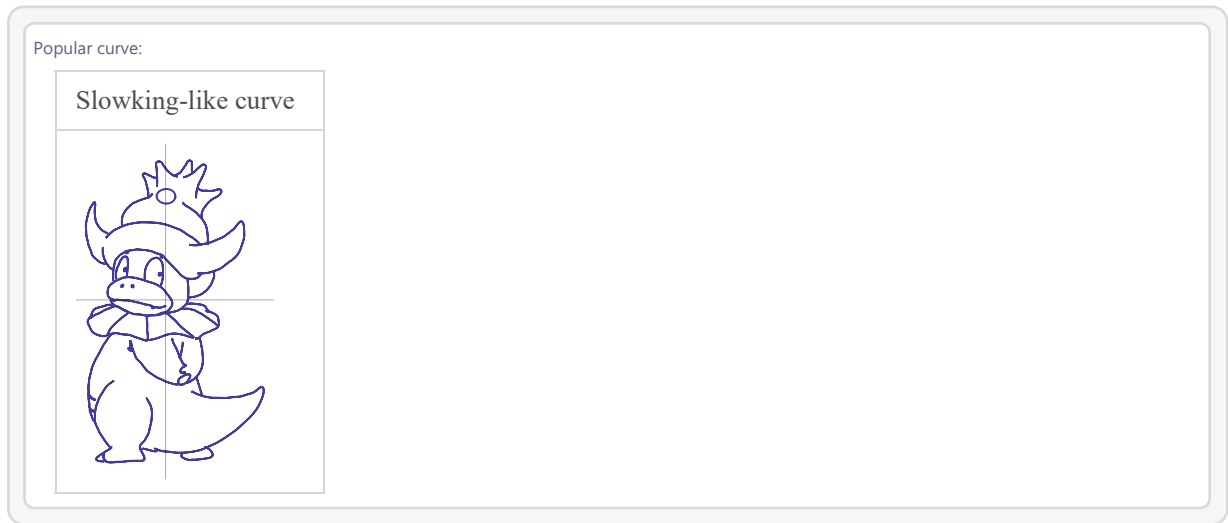


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## Project 3: Data



The purpose of this project is to battle! In this stage, you will battle your rival and compare the outcome to the battle simulator.

### Battle!

You and your rival will reveal your 3 chosen Pokémon<sup>®</sup> from your proposal and their moves. After studying each other's teams, you will battle each other. You are **not allowed to use shields, must use charge moves as soon as they are available** (so that charge moves are guaranteed to be a factor in battle), **and you cannot switch Pokémon<sup>®</sup> until at least one Pokémon<sup>®</sup> has fainted**. You will then plug the initial matchup of lead Pokémon<sup>®</sup> into your Battle Calculator to see if it matches what happened in the actual battle.

Note: We are going to have a “Battle Day” on April 29, so if you cannot meet with your partner outside of class, you can do your battle then.

I recommend recording the battle using screen recording on your phone. This way you can look back and get the details such as bubbles in the mini game.

After the battle, exchange your Pokémon<sup>®</sup> stats and recordings so your partner will have all the data they need. You will need IVs, true HP, CP and moves for each Pokémon<sup>®</sup> as well as mini game results.

### Submission

Your submission should include:

A) Your graded proposal.

B) Optional. You may also submit an updated proposal. If you didn't receive full credit for your proposal, or if you changed your battle team, you should do this!

C) Your Battle Simulation excel spreadsheet. The spreadsheet should contain the data for your matchup. You should begin with the BattleSimulator.xlsx from ICON. There will be three tabs, one for the calculations of the battle, and one tab for each of the Pokémon® in the battle. Fill in the stats and IVs for each Pokémon in the later tabs to compute attack, defense, and HP stats. On the first tab fill in all stats and moves for both Pokémon. Fill in the mini game results and be sure to remove the shields (since you were not allowed to use them in the battle!) You may need to go back to watch the videos. You should now have a complete account of your battle! The spreadsheet should also automatically produce a plot of HP as a function of turn and a plot of Energy as a function of turn.

## Grading

If you have updated your proposal, the revised proposal will be graded using the stage 1 rubric and you will receive the higher of the previous and current score. Your data will be graded using the **updated proposal**.

The data is worth a total of 20 points.

15 Points are for completeness. To receive full credit, you must complete the data collection described in your proposal.

0-5 Points	Severely incomplete. Missing major components.
6-10 Points	Somewhat incomplete, or not exactly as described.
10-15 Points	Data collection complete or very nearly complete and as described.

5 Points are for organization.

0-1 Points	Difficult to understand. Missing or unclear labels.
2-3 Points	Few or minor revisions needed.
4-5 Points	Data clear, organized and as described.