Breakout Group Task

Access the simulation here: <https://phet.colorado.edu/en/simulation/acid-base-solutions>

**Part 1: On the ‘Introduction’ tab, explore the different solutions, views and tools, then have a look at the questions below.**

1. a) What is the difference between a strong acid and a weak acid?

Replace this text with your answer.

b) How is this shown visually in the simulation? (In your answer, refer to the different types of particles present in the solution)

Replace this text with your answer.

c) Looking at the equations below the beaker for strong and weak acids, what difference can you see and what does this mean?

Replace this text with your answer.

**Part 2: Now have a look at the ‘My Solution’ tab (at the bottom) and again explore the different solutions, then answer the questions below.**

Consider a strong acid. What happens to the pH when you increase the concentration? Thinking about the equation you have learnt in lectures for calculating pH, can you explain why this happens?

Replace this text with your answer.