Name: ______________________ Date: ______________

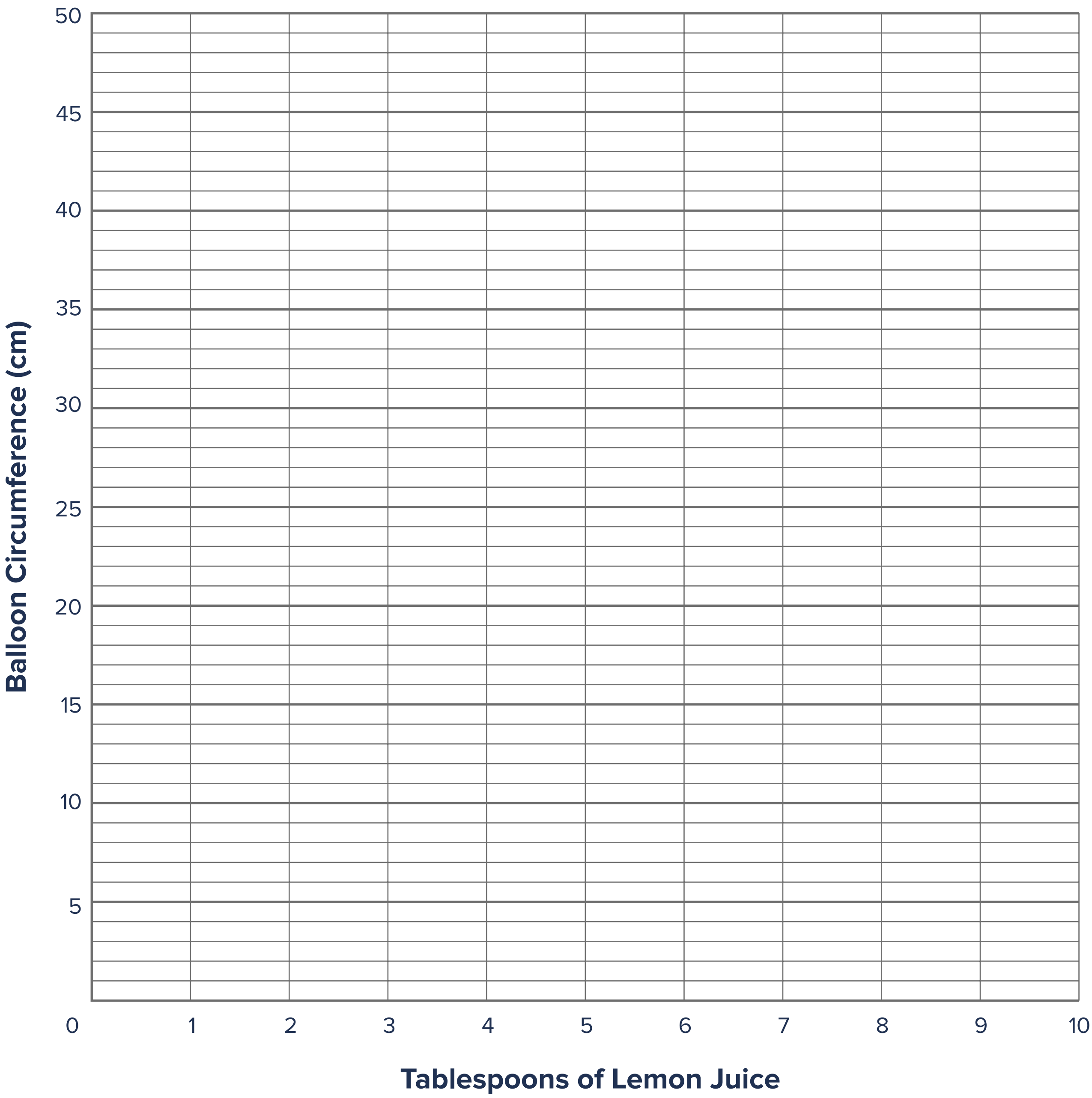
Learning Lab

Powering The Future Lesson 2b

Capturing Carbon Extension

1. Using the results collected by the entire class create a scatter graph showing the results of the lemon juice and bicarbonate of soda investigation.

Carbon Capture Investigation

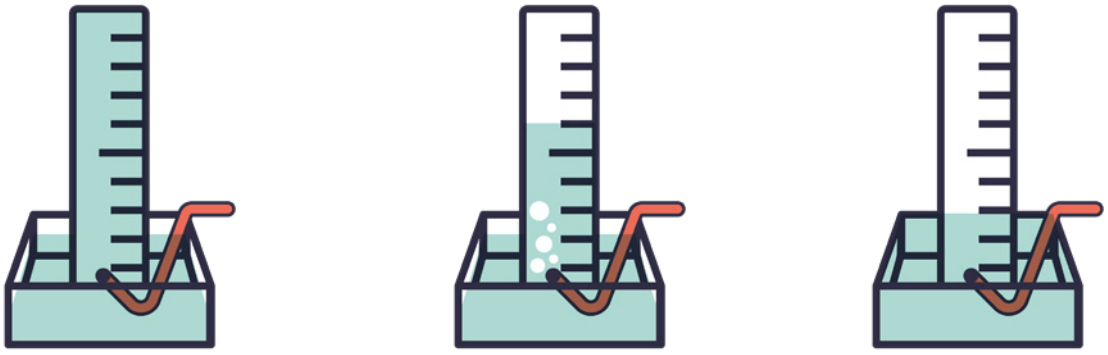


2. Explain the relationship between the volume of lemon juice used and the circumference of the balloon.

3. Some groups who added the same number of tablespoons of lemon juice may have different results. **What are some of the reasons that this might have happened?**

4. There is a way to collect gas from chemical reactions that lets us accurately measure the volume that has been released.

   The gas is bubbled through water, which is forced out the chamber to make way for the gas.



   Since carbon dioxide dissolves easily into water, would this be useful for measuring carbon dioxide release, and why?

5. When captured carbon dioxide is transported, it's compressed to become a liquid. When it is injected into the ground, it becomes a gas. **What sort of issues do you think need to be considered when injecting into the ground?**