This simulation allows you to manipulate many variables. You already observed how light colors will affect the growth of a plant, in this simulation you can directly measure the rate of photosynthesis by counting the number of bubbles of oxygen that are released.

There are 3 other potential variables you could test with this simulation: **amount of carbon dioxide, light intensity, and temperature.** Keep the light settings at white light (you already tested colored light in the last experiment.)

Choose one of the above variables and design and experiment that would test how this factor affects the rate of photosynthesis. Remember, that when designing an experiment, you need to keep all variables constant except the one you are testing. Collect data and write a summary of your findings by providing the following information:

* Experimental Question:
  + Manipulated variable (what variable you are changing): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Responding variable (what you are measuring): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Hypothesis (“If *manipulated variable*, then *responding variable*, because *scientific reasoning*”):
* Data table (design and fill out an appropriate table below):
* Conclusion (CER format! Remember, the claim answers the experimental question even if it doesn’t match your original hypothesis. Be sure to state whether your hypothesis was accurate or not in addition to your claim):