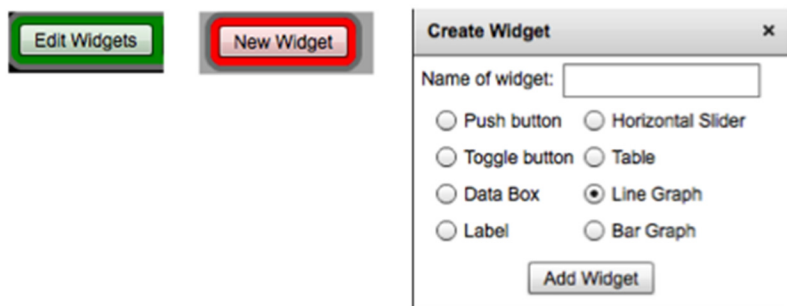


Lesson 4 - Student Activity #2 Guide

Running Experiments

Your Challenge: Add instrumentation to your model so you can observe the rate of reaction, then characterize the rate of reaction.

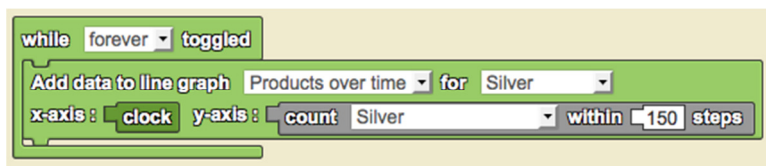
Start with modified model from Activity 1 and add a new widget, a line graph.



On the line graph window, add a new series to the graph by double clicking on New Series and changing the name and line color. For example,

- Create a new series called “Silver” then select gray as its line color.
- Create a new series called “Cu(II).1H₂O” then select cyan as its line color.
- Do the same for the other products you want to monitor.

Finally, add the corresponding commands to the World’s page to update the line graph as time advances (clock tick).



Use the experimental design form to design and document your experiment. Try to determine the impact of reactant availability on the rate of reaction (production of products).

What do you observe?

Did the rate of the reaction increase as the number of reactants increased? Or vice versa?