PLANNING AND CARRYING OUT AN INVESTIGATION

Draw or paste a visual of the phenomenon

Describe the phenomenon to be investigated.

Plan Your Investigation

What can you explore in this investigation?

How might you investigate the question?

Sketch and label the investigation set-up.

What do you expect to observe during this investigation?

What safety considerations should you plan for?

Variables

Independent Variable What are you changing, or manipulating?

Dependent Variable What variable are you measuring, or observing that might respond to the variable you changed?

Constants What will remain unchanged?

Teacher feedback/approval on investigation

Create a data table to organize your data and observations

What scientific concept(s) might explain what you observed?

Describe how you understand the phenomenon differently based on the connection between results in the investigation and the science ideas.

Analyze the data you collected by identifying patterns in the data. *(You may consider calculating means of central tendencies, and determining if there are any relationships between the variables).*