

# The Scientific Method

## *Float your Boat*

- **Question**

Which design will build the strongest boat?

- **Research**

Do an online search of real boats. Analyze the different structures and think about how this research might apply to aluminum foil boats. Discuss as a group what design features you think creates the strongest boat.

*What makes a good boat?*

- **Hypothesis**

Decide what you think will be the best hypothesis (your best educated guess on how to build the strongest aluminum foil boat).

*Record your hypothesis.*

*Draw a picture of your boat design.*

- **Testing the hypothesis (Procedure)**

Use the foil and tape to construct the boat.

- **Collect Data and Analyze**

Evaluate your hypothesis and decide whether it was correct or incorrect.

*How many pennies can your boat hold?*

- **Conclude/ Show results**

Talk among yourselves to figure out what your results showed, how they could have improved the experiment, and what experiment they could do next to build on these results. Be prepared to share your final thoughts with the rest of the class.

*Was your hypothesis correct? Explain.*

*How could you have improved the boat?*

*What would you do next to time to build on these results?*