

## Fortune Fish Lab - Scientific Inquiry

**Purpose:** To use the steps of scientific method to attempt to find an answer to an unknown occurrence. Students shall have a sense of skepticism and curiosity in science and the capability of solving scientific questions.

**Standards:** ScSh 1-9

1. **Observation:** What observations can you make about the fortune fish?
2. **Questions:** What would you like to know about the fortune fish?
3. **Hypothesis:** What is your answer, prediction or educated guess, to one of your questions?
4. **Experimental Design:** Design an experiment for your hypothesis and explain how you will *TEST* your hypothesis?
5. **Variables:** What is the *SINGLE* independent variable being tested? What are the dependant variables you are going to measure? What are the variables that you will keep consistent, or control for the duration of your experiment?
6. **Results:** How will you analyze your data? What tables and graphs will you use? How will you show other scientists your results?
7. **Conclusion:** Explain why or why not your hypothesis was correct.
8. **Publish:** What type of media would you use to publish your scientific inquiry? Why is it important to publish scientific work?