More Scientific Method
3rd grade

Overview
Students will review the process scientists go through to conduct an experiment. They will then create their own experiment on the probability of “heads-up” on a penny flip. *This program is recommended if students participated in I’m A Scientist, Too in a previous semester or year.

Vocabulary
- bias – prejudice in favor of or against one thing
- hypothesis – an intelligent/educated/good guess, your prediction

NM Science Standards Addressed
1-1-1-2 Recognize the difference between data and opinion.
1-1-1-3 Use numerical data in describing and comparing objects, events, and measurements.
1-1-1-4 Collect data in an investigation and analyze those data.
1-1-1-5 Know that the same scientific laws govern investigation in different times & places.
1-1-2-1 Use a variety of methods to display data and present findings.
1-1-2-2 Understand that predictions are based on observations, measurements, and cause-and-effect relationships.
1-1-3-1 Use numerical data in describing and comparing objects, events, and measurements.
1-1-3-2 Pose a question of interest and present observations and measurements with accuracy.
1-1-3-3 Use various methods to display data and present findings and communicate results in accurate mathematical language.

CCSS Language Arts Standards Addressed
RI.3.4 Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a grade 3 topic or subject area.
SL.3.1 Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 3 topics and texts, building on others' ideas and expressing their own clearly.
SL.3.3 Ask and answer questions about information from a speaker, offering appropriate elaboration and detail.

CCSS Math Standards Addressed
N/A

Next Generation Science Standards Addressed
3-5-ETS1-1 Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.
3-5-ETS1-3 Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.

Date: _______________________
Asombro staff: ____________________