**Term 2 - Testable Question Project Grades 3-4**

1. Find a testable question. This can be a question that your child may have about the world around them, especially in your own home or community.
2. Try to come up with your own testable question. **Please don’t use an experiment from a book or an experiment that you have already tried in the past (no mentos or volcano experiments, please).** See the Testable Questions Ideas document for more ideas if you are having trouble coming up with your own.
3. Experiment

Design an experiment and carry out the steps to test your question. Record the results on a Scientific Method experiment form (use our template or make your own). Organize the data that you are able to measure and observe during the experiment; use a tally or table to collect and record your data as you work through the experiment; use a graph to share your results. Take photos.

* + Problem: What do you wonder about? State the question the experiment is trying to solve.
  + Background Research: What do you already know?
  + Hypothesis: What do you predict will happen?
  + Experiment: What supplies do you need? What steps will you take? List supplies and equipment used to conduct the experiment. Describe the step-by-step process on how the experiment was performed and measured.
  + Results: What happened in your experiment? Record and graph quantitative (numerical and measurable) data. Report qualitative (descriptive) observations.
  + Conclusion: What are the important things you learned about your predictions? What new questions do you have? Summarize your results. State if your hypothesis was supported or not. Suggest improvements to the experiment. If you repeated the experiment, what would you do differently? What would be an area for further exploration?

1. Put together all of the components in a way that presents your work. You could make a poster, or a model, or a booklet or any other form that you would like. Include:
   * Scientific Method experiment form
   * Data organization
   * Drawings, images, photographs
2. The Showcase date is Tuesday February 20th. Students will have the opportunity to share their results and what they found out, with their classmates.