

## Term 2 - Testable Question Project Grades 3-4-5

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.
  - Question: What do you wonder about? State the question the experiment is trying to solve.
  - Research/Observation: What do you already know? Gather information about the problem before the experiment. Determine one variable that will be changed and measured for a fair test.
  - Hypothesis: What do you predict will happen?
  - Experiment: What materials do you need? What procedure/steps will you take?
  - Results: What happened in your experiment? Record and graph quantitative (numerical and measurable) data. Report qualitative (descriptive) observations.
  - Conclusions: What are the important things you learned about your predictions? Summarize results. State if hypothesis was supported or not.
  - New Questions/ Notes for Next Time: What new questions do you have? Suggest improvements to the experiment. If you repeated the experiment, what would you do differently. Did you end up with more than one variable that complicated the results? What would be an area for further exploration?
4. 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
  - Science Rubric
5. The Showcase date is Tuesday, February 24<sup>th</sup> or Wednesday, February 25<sup>th</sup> (depending on the student's colour group). Students will have the opportunity to share their results and what they discovered with their classmates.