INTRODUCTORY VIDEO
Watch the short 5 minute video, Who took my book?, then spend a few minutes reviewing the content of this handout and explore the Science Practices kit.

The video can be found on the Engineering Design project page: http://www.extension.umn.edu/youth/mn4-H/projects/SET/engineering-design/. It is also on YouTube at http://youtu.be/XqLxm-MU-CQ.

NGSS FRAMEWORK: 8 SCIENCE & ENGINEERING PRACTICES
A Science Framework for K-12 Science Education provides the blueprint for the Next Generation Science Standards (NGSS). The eight practices of science and engineering that the Framework identifies as essential for all students to learn and describes in detail are listed below:

- Asking questions (for science) and defining problems (for engineering)
- Developing and using models
- Planning and carrying out investigations
- Analyzing and interpreting data
- Using mathematics and computational thinking
- Constructing explanations (for science) and designing solutions (for engineering)
- Engaging in argument from evidence
- Obtaining, evaluating, and communicating information

For additional explanation and more detail about the practices, please reference this link: http://www.nextgenscience.org/next-generation-science-standards and click on Appendix F. Science and Engineering Practices.

NOTE
Excerpted from APPENDIX F – Science and Engineering Practices in the NGSS, April 2013

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