

# Unit 1: Lab Skills

## Lesson Plan

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| <b>Disciplinary Core Areas</b> |                                                                                                                                                                                                                                                                                                                     |
| <b>NGSS:</b>                   |                                                                                                                                                                                                                                                                                                                     |
| <b>Lesson Title</b>            | Planning an Investigation                                                                                                                                                                                                                                                                                           |
| <b>Lesson Number</b>           | 1-6                                                                                                                                                                                                                                                                                                                 |
| <b>Learning Objectives:</b>    | <ul style="list-style-type: none"><li>• Describe the scientific method</li><li>• Identify the steps in planning an investigation</li><li>• Formulate a hypothesis</li><li>• Differentiate the three types of variables</li><li>• Identify the three types of variables</li></ul>                                    |
| <b>"I can" Statements:</b>     | <ul style="list-style-type: none"><li>• I can describe the scientific method.</li><li>• I can identify the steps in planning an investigation.</li><li>• I can formulate a hypothesis.</li><li>• I can differentiate the three types of variables.</li><li>• I can identify the three types of variables.</li></ul> |
| <b>Prior Knowledge:</b>        | Science Process Skills, Laboratory Equipment, Laboratory Safety, Laboratory Procedures, Measuring                                                                                                                                                                                                                   |
| <b>Vocabulary:</b>             | controlled group, controlled variable, dependent variable, experimenting, experimental group, experimental trials, hypothesis, independent variable, scientific method, variable                                                                                                                                    |
| <b>Summary of Activities:</b>  | <ol style="list-style-type: none"><li>1. Distribute and complete bell ringer activity.</li><li>2. Discuss guided notes and slideshow, with students.</li><li>3. Complete laboratory activity.</li><li>4. Exit quiz</li></ol>                                                                                        |
| <b>Additional Resource:</b>    | <ul style="list-style-type: none"><li>• Online activities</li><li>• Laboratory activity</li></ul>                                                                                                                                                                                                                   |
| <b>Homework:</b>               | <ul style="list-style-type: none"><li>• Distribute assignment</li></ul>                                                                                                                                                                                                                                             |
| <b>Assessment:</b>             | <ul style="list-style-type: none"><li>• Bell work</li><li>• Assignment</li><li>• Exit quiz</li><li>• End of unit review</li></ul>                                                                                                                                                                                   |