

NJCCCS Standards:

STANDARD 5.1 (SCIENTIFIC PROCESSES) ALL STUDENTS WILL DEVELOP PROBLEM-SOLVING, DECISION-MAKING AND INQUIRY SKILLS, REFLECTED BY FORMULATING USABLE QUESTIONS AND HYPOTHESES, PLANNING EXPERIMENTS, CONDUCTING SYSTEMATIC OBSERVATIONS, INTERPRETING AND ANALYZING DATA, DRAWING CONCLUSIONS, AND COMMUNICATING RESULTS.

By the end of **Grade 8**, students will:

<p>A</p> <p>Habits of Mind</p>	<ol style="list-style-type: none">1. Evaluate the strengths and weaknesses of data, claims, and arguments.2. Communicate experimental findings to others.3. Recognize that the results of scientific investigations are seldom exactly the same and that replication is often necessary.4. Recognize that curiosity, skepticism, open-mindedness, and honesty are attributes of scientists.
<p>B</p> <p>Inquiry and Problem Solving</p>	<ol style="list-style-type: none">1. Identify questions and make predictions that can be addressed by conducting investigations.2. Design and conduct investigations incorporating the use of a control.3. Collect, organize, and interpret the data that result from experiments.
<p>C</p> <p>Safety</p>	<ol style="list-style-type: none">1. Know when and how to use appropriate safety equipment with all classroom materials.2. Understand and practice safety procedures for conducting science investigations.

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