

The Next Generation Science Standards

Science and Engineering Practices



Scientific and Engineering Practices

Guiding Principles

- Students in grades K-12 should engage in all eight practices over each grade band.
- Practices grow in complexity and sophistication across the grades.
- Each practices may reflect science or engineering.
- Practices represent what students are expected to do, and are not teaching methods or curriculum.

Asking Questions/Defining Problems

- **Science** begins with questions.
- Exploring the universe.
- Looking for ONE correct answer.
- *Engineering* begins with defining a problem to solve.
- Fulfilling human needs.
- Finding more than one possible solution.

Inquiry

Design

Asking Questions/Defining Problems

A simple way to start:

Observations of a Burning Candle



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