

Science practices describe the knowledge and skills that students should learn and demonstrate to reach a goal or complete a learning activity.

Science Practice 1

Using models. I can...

- create, describe and refine models of natural or man-made phenomena and systems.
- use models to analyze situations or solve problems qualitatively and quantitatively.

Science Practice 2

Using math. I can...

- justify the selection of a mathematical process to solve problems.
- apply mathematical routines to quantities that describe natural phenomena.
- estimate quantities that describe natural phenomena.

Science Practice 3

Asking scientific questions. I can...

- pose scientific questions.
- refine scientific questions.
- evaluate scientific questions.

Science Practice 4

Designing experiments. I can...

- justify the selection of the kind of data needed to answer a particular scientific question.
- design an experiment to collect data to answer a particular scientific question.

Science Practice 5

Working with data. I can...

- analyze data to identify patterns or relationships.
- refine observations and measurements based on data analysis.

Science Practice 6

Making and justifying claims and predictions. I can...

- justify claims with evidence.
- construct explanations of phenomena based on evidence.
- make claims and predictions based on scientific theories and models.
- evaluate alternative scientific explanations.

Science Practice 7

Making connections. I can...

- connect concepts across over different scales and times
- connect concepts across different topics.