



## Standards- Based Education Priority Standards

# Science 6

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### [State Standards Link](#)

- PS 1 I can develop models to show that molecules are made of different kinds, proportions and quantities of atoms.
- PS 2 I can develop a model to predict the effect of heat energy on states of matter and density.
- PS 3 \* I can apply my knowledge of heat energy to design, build, and test a system that minimizes or maximizes heat transfer.
- PS 4 I can develop and use a model of the Sun-Earth-Moon system to describe the cyclic patterns of seasons.
- PS 5 I can develop and use a model to describe the role of gravity and inertia in orbital motions of objects in our solar system.
- PS 6 \* I can use mathematical reasoning to analyze data and determine the scale and properties of objects in the solar system.
- PS 7 I can investigate, collect data, and analyze how the relationship between air masses and air pressure changes weather.
- PS 8 I can develop and use a model to show how unequal heating of the Earth causes patterns in wind and ocean currents that determine regional climates.

- PS 9 \* I can explain using evidence the impact of the natural greenhouse effect on different planets, and how it enables life to exist on Earth.
- PS 10 I can interpret the cause and effect relationships between resource availability and interactions among organisms in multiple ecosystems.
- PS 11 I can create a model showing the flow of energy through an ecosystem.
- PS 12 I can construct an argument supported by evidence that evaluates how design solutions maintain stability within an ecosystem.