

6TH Grade Science I CAN Statements

6-8 LS1-1

I can provide evidence that organisms are made of cells.

I can provide evidence that a single cell organisms must carry out all of the basic functions of life.

I can explain that all organisms are composed of cells either unicellular or multicellular.

6-8-LS-1-2

I can develop and use a model to describe the function of a cell as a whole.

I can develop and use a model to describe the way the parts of the cell contribute to that function.

6-8-LS 4-1

I can interpret evidence from the fossil records to look for patterns resulting in extinction and changes to life forms.

6-8 ESS 1-1

I can use a model to explain the cyclic patterns of lunar phases.

I can explain eclipses of sun or moon using a model of Sun-Earth-Moon.

6-8-EES 1-2

I can explain the repeating pattern of seasons.

I can explain the directional angle of sunlight as the earth tilts to create seasons.

I can use the directional path of the sun over the Northern and Southern hemisphere over the course of year.

6-8-EES1-3

I can describe that gravity is the force that holds together solar system and Milky Way galaxy.

I can describe that gravity controls orbital motions within the solar system.

6-8-EES-1-4

I can analyze and interpret data to determine scale properties of objects in the solar systems.

6-8 EES 1-5

I can evaluate evidence past and current movement of continental and oceanic crust to explain the age of crustal rocks.

I can plan and conduct an investigation of the property of water and its effect on earth's material and surface processes.

6-8-EES 2-1

I can illustrate the Earth's interior drives convection in the Earth's crust leading to melting, crystallization, weathering and deformation of large rock formations, ocean floor at ridges, ocean sea floor at trenches, mountain building and active volcanic chains.

6-8 EES 2-2

I can understand that the change in earth's surface can change slowly over time or rapid with sudden Catastrophic Events.

I can understand surface weathering and deposition by movement of water, ice and wind.

6-8 EES 2-3

I can interpret data on the distribution of fossils and rocks, continental shapes and seafloor structures to provide evidence of past plate motion.

6-8 EES 2-4

I can describe the cycling of water through Earth's systems driven by energy from the Sun and the force of gravity.

6-8 EES2-5

I can research, collect and analyze data to provide evidence for how motions and complex interactions of air masses results in changes of weather conditions.

6-8 EES 2-6

I can use a model to describe how unequal heating and rotation of the Earth cause patterns of atmospheric and oceanic circulation that determine regional climates.

6-8-EES3-1

I can construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy and groundwater resources are the result of past and current geoscience processes and human activity.

6-8-EES 3-2

I can forecast catastrophic events and the development of technology to reduce their effects on the Earth and the human impact.

6-8-EES 3-3

I can define the relationship for how the increase in human population and per capita consumption of natural resources impact Earth's systems.

6-8-EES 3-4

I can apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.

6-8-EES 3-5

I can analyze evidence of the factors that have caused the change in global temperatures over the past century.