

Kindergarten	Grade One	Grade Two	Grade Three	Grade Four	Grade Five	Grade Six	Grade Seven	Grade Eight
___ I can tell daily and seasonal changes in weather.	___ I can observe, record, and tell about the daily weather and seasons.	___ I can observe and describe rocks, soils, water.	___ I can recognize the difference between rotation and revolution and their connection to day, night, seasons, and the year.	___ I can describe the water cycle involving the processes of evaporation, condensation, precipitation, and collection.	___ I can identify the planets in the solar system. I can name their relative sizes and basic characteristics.	___ I can describe how the chemical structure of water molecules causes them to stick together.		___ I can explain how fossils form.
___ I can observe and tell about the changes in the position of the sun and moon.		___ I can show that some kinds of living things that once lived on earth are now extinct, including but not limited to dinosaurs, trilobites, mammoths, giant tree ferns, and horsetail trees.	___ I can explain that the sun supplies heat and light to the earth.	___ I can identify where water exists on Earth.	___ I can explain the stages in the life cycle of a star.	___ I can describe some of water's unusual properties.		___ I can identify three kinds of fossils.
			___ I can perform the role of a geologist such as scratch and calcite tests.	___ I can measure, record, and describe weather conditions using common instruments.	___ I can recognize that the stars in the sky appear to slowly move from east to west.	___ I can identify the three states in which water exists on Earth.		___ I can explain what fossils tell about organisms and environments of the past.
				___ I can identify cumulus, cirrus, and stratus clouds.	___ I can identify the sun as an average sized star and that the other stars are so far away that they look like points of light.	___ I can state how people and other living things use water.		___ I can state the law of superposition.
				___ I can identify the natural processes that cause rocks to break down into smaller pieces.	___ I can recognize that telescopes magnify distant objects in the sky and dramatically increase the number of stars we can see.	___ I can describe how Earth's water is distributed.		___ I can tell how geologists determine the relative age of rocks.
				___ I can describe how waves, wind, water, and ice shape and reshape Earth's surface.	___ I can explain that the universe consists of many billions of galaxies, each containing many billions of stars.	___ I can explain how Earth's water moves through the water cycle.		___ I can explain how index fossils are useful to geologists.

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				___ I can identify and investigate environmental issues and potential solutions.	___ I can recognize that the sun is medium sized star and the closest star to Earth. I can explain that it is the central and largest body in the solar system and is one of billions of stars in the Milky Way Galaxy.	___ I can tell what a river system is.		___ I can explain what happens during radioactive decay.
						___ I can explain how ponds and lakes form.		___ I can tell about what can be learned from radioactive dating.
						___ I can describe the changes that occur in ponds and lakes.		___ I can explain why the geologic time scale is used to show Earth's history.
						___ I can describe the common types of freshwater wetlands.		___ I can tell about the different units of the geologic time scale.
						___ I can identify human activities that threaten the Florida Everglades.		___ I can state when the Earth was formed.
						___ I can explain important functions that wetlands serve.		___ I can explain how Earth's physical features developed during the Precambrian time.
						___ I can describe how water moves through underground layers of soil and rock.		___ I can tell about what early Precambrian organisms were like.
						___ I can explain how people obtain water from an aquifer.		___ I can tell about the major events in the Paleozoic Era.
						___ I can describe the composition of Earth's atmosphere.		___ I can tell about the major events in the Mesozoic Era.
						___ I can state how the atmosphere is important to living things.		___ I can tell about the major events in the Cenozoic Era.

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						___ I can identify some properties of air.		___ I can explain how geologists learn about Earth's inner structures.
						___ I can name instruments that are used to measure air pressure and density.		___ I can tell about the characteristics of Earth's crust, mantle, and core.
						___ I can identify the four main layers of the atmosphere.		___ I can explain how heat is transferred.
						___ I can describe the characteristics of each layer.		___ I can tell about what causes convection currents.
						___ I can state how scientists describe and explain winds.		___ I can tell about convection currents in Earth's mantle.
						___ I can distinguish between local winds and global winds.		___ I can explain Alfred Wegener's hypothesis about the continents.
						___ I can identify where the major global wind belts are located.		___ I can list the evidence used by Wegener to support his hypothesis.
						___ I can describe how water moves to and from the atmosphere during the water cycle.		___ I can explain why other scientists of Wegener's day rejected his hypothesis.
						___ I can explain how clouds form.		___ I can list the evidence for sea-floor spreading.
						___ I can name the three main types of clouds.		___ I can explain the process of sea-floor spreading.
						___ I can identify the major types of air masses that affect the weather in North America, and describe how they move.		___ I can tell about the process of subduction.

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						___ I can name the main types of fronts.		___ I can explain the theory of plate tectonics.
						___ I can explain the type of weather that is associated with cyclones and anticyclones.		___ I can tell about the three types of plate boundaries.
						___ I can list the main kinds of storms and explain how they form.		___ I can explain how stress in the Earth's crust changes the Earth's
						___ I can describe measures that can be taken to ensure safety in a storm.		___ I can tell about where faults are usually found and why they form.
						___ I can explain how weather forecasters predict the weather.		___ I can find the land features that result from plate movements.
						___ I can explain how technology has helped improve weather forecasts.		___ I can tell about how the energy of an earthquake travels through the Earth.
						___ I can describe what can be learned from information shown on weather maps.		___ I can tell about the scales used to measure the strength of an earthquake.
						___ I can identify factors that influence temperature and precipitation.		___ I can explain how scientists locate the epicenter of an earthquake.
						___ I can explain what causes the seasons.		___ I can explain how a seismograph works.
								___ I can tell about how geologists monitor faults.
								___ I can explain how seismographic data is useful.
								___ I can tell about the kinds of damage an earthquake can cause.

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								___ I can give suggestions to increase earthquake safety and reduce earthquake damage.
								___ I can show where Earth's volcanic regions are located and explain why they are found there.
								___ I can explain how hot spot volcanoes form.
								___ I can tell about some physical and chemical properties of matter.
								___ I can explain why some liquids flow more easily than others.
								___ I can explain what factors determine the viscosity of magma.
								___ I can explain what happens when a volcano erupts.
								___ I can tell about the two types of volcanic eruption.
								___ I can tell about a volcano's stages of activity.
								___ I can list the landforms that lava and
								___ I can explain how the magma that hardens beneath Earth's surface creates landforms.
								___ I can find other distinct features that occur in volcanic areas.
								___ I can define a mineral.

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								___ I can explain how minerals are identified.
								___ I can explain how minerals form from magma and lava.
								___ I can explain how minerals form from water solutions.
								___ I can tell about how minerals are used.
								___ I can explain how ores are processed to obtain metals.
								___ I can list the characteristics used to identify rocks.
								___ I can pick out and describe the three major groups of rocks.
								___ I can find the characteristics used to classify igneous rocks.
								___ I can tell about ways in which igneous rocks are useful.
								___ I can tell about how sedimentary rocks form.
								___ I can list and describe the three major types of sedimentary rocks.
								___ I can explain how sedimentary rocks are useful.
								___ I can tell about the formation of coral reefs.

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								___ I can explain how limestone deposits from coral reefs provide information about Earth's history.
								___ I can tell about the conditions under which metamorphic rocks form.
								___ I can tell about the ways in which geologists classify metamorphic rocks.
								___ I can explain how metamorphic rocks are used.
								___ I can tell about the rock cycle.
								___ I can explain the role of plate tectonics in the rock cycle.