

# FCAT Science Vocabulary

## Grade 5

<b>atom</b>	the smallest unit of a chemical element that can still retain the properties of that element
<b>carnivore</b>	an animal or plant that consumes or obtains nutrients from animals
<b>community</b>	all the populations of organisms belonging to different species and sharing the same geographical area
<b>conservation</b>	controlled use and/or maintenance of natural resources; various efforts to preserve or protect natural resources
<b>consumer</b>	an organism that feeds on other organisms for food
<b>decomposer</b>	any organism that feeds or obtains nutrients by breaking down organic matter from dead organisms
<b>density</b>	mass per unit volume of a substance in a given area
<b>ecosystem</b>	an ecological community, together with its environment, functioning as a unit
<b>energy</b>	a quantity that describes the capacity to do work; a source of usable power
<b>energy pyramid</b>	a pyramidal diagram that compares the amount of energy available at each position, or level, in the feeding order
<b>energy transfer</b>	a change of energy from one form to another (e.g., mechanical to electrical, solar to electrical)
<b>environment</b>	the sum of conditions affecting an organism, including all living and nonliving things in an area, such as plants, animals, water, soil, weather, landforms, and air
<b>experiment</b>	a procedure that is carried out and repeated under controlled conditions in order to discover, demonstrate, or test a hypothesis; includes all components of the scientific method
<b>food chain</b>	transfer of energy through various stages as a result of feeding patterns of a series of organisms
<b>food web</b>	the interconnected feeding relationships in a food chain found in a particular place and time
<b>force</b>	a push or a pull
<b>friction</b>	a force that opposes the relative motion of two material surfaces in contact with one another

<b>gravitation</b>	a force of attraction between two masses
<b>gravity</b>	the observed effect of the force of gravitation
<b>habitat</b>	a place in an ecosystem where an organism normally lives
<b>heat</b>	a form of energy resulting from the temperature difference between a system and its surroundings
<b>herbivore</b>	an animal that feeds on plants
<b>inertia</b>	the property of a body, due to its mass, that causes it to resist any change in its motion unless overcome by a force
<b>investigation</b>	a procedure that is carried out in order to observe a response caused by a stimulus
<b>kinetic energy</b>	the energy possessed by a body because of its motion
<b>life cycle</b>	the entire sequence of events in an organism's growth and development
<b>light</b>	electromagnetic radiation that lies within the visible range
<b>mass</b>	the amount of matter an object contains
<b>microscopic</b>	relating to an object too small to be visible without the use of a microscope
<b>nonrenewable resource</b>	a resource that can only be replenished over millions of years
<b>organ</b>	a structure containing different tissues that are organized to carry out a specific function in the body (e.g., heart, lungs, brain, liver, etc.)
<b>organism</b>	any living plant, animal, or fungus that maintains various vital processes necessary for life
<b>photosynthesis</b>	a chemical process by which plants trap light energy to convert carbon dioxide and water into carbohydrates (sugars)
<b>pollution</b>	any alteration of the natural environment producing a condition harmful to living organisms; may occur naturally or as a result of human activities
<b>population</b>	a group of organisms of the same species living in a specific geographical area
<b>potential energy</b>	the energy an object has because of its position or structure; stored energy
<b>predator</b>	an organism that preys on and consumes animals; usually an animal
<b>prey</b>	an organism caught or hunted for food by another organism
<b>producer</b>	an organism that makes its own food from the environment; usually a green plant

<b>protest</b>	unicellular organisms belonging to the kingdom Protista
<b>reflection</b>	the bouncing of or turning back of light, sound, or heat from a surface
<b>refraction</b>	a change in direction of a wave that occurs as it passes from one medium to another of different density
<b>renewable resource</b>	a resource that is replaced as it is used, by natural processes in a reasonable amount of time
<b>resource</b>	any material that can be used to satisfy a need
<b>scientific method</b>	a plan of inquiry that uses process skills as a tool to gather, organize, analyze, and communicate information
<b>system</b>	a set of objects, organisms, or different parts acting to form a whole
<b>tissue</b>	similar cells acting to perform a specific function; four basic types are muscle, connective, nerve, and epidermal

#### **Grade 4**

<b>adaptation</b>	a characteristic of an organism that increases its chance of survival in its environment
<b>atmosphere</b>	the layers of gas that surround the Earth, other planets, or stars
<b>axis</b>	the imaginary line on which the Earth rotates
<b>change of state</b>	a physical change that occurs when matter changes to another state
<b>compound</b>	a substance made up of a combination of two or more elements held together by chemical bonds that cannot be separated by physical means
<b>chemical change</b>	a reaction or a change in a substance produced by chemical means that results in producing a different chemical
<b>condensation</b>	the process of changing from a gas to a liquid
<b>constellation</b>	a star pattern identified and named as a definite group
<b>element</b>	a substance that cannot be reduced to a simpler substance by chemical means
<b>equator</b>	an imaginary circle around Earth's surface located between the poles and a plane perpendicular to its axis of rotation that divides it into the Northern and Southern Hemispheres
<b>evaporation</b>	the process in which a liquid is converted to its vapor phase by heating the liquid

<b>fossil</b>	a whole or part of a plant or animal that has been preserved in sedimentary rock
<b>galaxy</b>	a large collection of stars, gases, and dust that are part of the universe bound together by gravitational forces
<b>gravitation</b>	a force of attraction between two masses
<b>liquid</b>	one of the fundamental states of matter with a definite volume but no shape
<b>magnetic</b>	having the property of attracting iron and certain other materials by virtue of a surrounding field of force
<b>mixture</b>	the product of a thorough blending of two or more substances, not chemically combined
<b>moon</b>	a natural satellite that revolves around a planet
<b>moon phase</b>	a phase that indicates the fraction of the Moon's disc that is illuminated; the eight moon phases: new moon, waxing crescent, first quarter, waxing gibbous, full moon, waning gibbous, last quarter, waning crescent
<b>physical change</b>	a reaction; a change in matter from one form to another, without forming new substances
<b>planet</b>	a large body in space that orbits a star and does not produce light of its own
<b>solar system</b>	a star and all the other planets that orbit it
<b>solution</b>	a mixture of two or more substances uniformly dispersed throughout a single phase
<b>star</b>	a large, gaseous, self-luminous body held together by gravity
<b>Sun</b>	the closest star to Earth and the center of our solar system
<b>universe</b>	the total sum of all matter and energy that exist
<b>volume</b>	a measure of the amount of space an object takes up; also the loudness of a sound or signal
<b>water cycle</b>	the path water takes as it is being cycled through the environment, including condensation, evaporation, and precipitation

### Grade 3

<b>deposition</b>	the process by which sediment is carried by forces (e.g., wind, rain, or water currents) and left in a certain area
<b>earthquake</b>	the shaking of the ground caused by the sudden release of energy in Earth's crust
<b>erosion</b>	the wearing away of Earth's surface by the breakdown and transportation of rock and soil
<b>fulcrum</b>	the pivot point of a lever
<b>gas</b>	one of the fundamental states of matter in which molecules do not have fixed volume or shape
<b>igneous rock</b>	a type of rock that forms from molten or partly molten material that cools and hardens
<b>inclined plane</b>	a type of simple machine; a slanted surface that makes it easier to move a mass from a lower to a higher point
<b>lever</b>	a type of simple machine; consists of a rigid bar that pivots about a fulcrum, used to transmit and enhance power or motion
<b>matter</b>	a solid, liquid, or gas that possesses inertia and is capable of occupying space
<b>metamorphic rock</b>	a type of rock that forms from existing rock because of extreme changes caused by heat, pressure, or chemical environments
<b>pulley</b>	a type of simple machine; a circular lever, usually a wheel with a groove where a rope can be placed and used to change the direction of a force
<b>sedimentary rock</b>	rock formed from layers of sediment that overlay and squeeze together or are chemically combined
<b>solid</b>	having a definite shape and a definite volume; one of the fundamental states of matter
<b>topography</b>	the surface, shape, and composition of a land area
<b>volcano</b>	a vent or fissure in Earth's surface through which magma and its associated materials are expelled; generally a mountain-like structure
<b>weathering</b>	the natural processes that break down and change rock into soil, sand, and other materials; differs from erosion in that no transportation of those materials takes place
<b>wheel and axle</b>	a type of simple machine; a circular frame or disk revolving around a central axis