

Glossary of Scientific Terms

The following list includes some scientific terms that have appeared on previously released ACTs. While the ACT Science Reasoning Test is not a test of scientific knowledge, basic understanding of some of these terms might help you better understand the passages and increase your confidence on test day.

Acceleration:	The rate of change of velocity
Aerobic respiration:	The breakdown of glucose in the body of an animal to supply muscles with oxygen
Aerosol:	Solid or Liquid particles suspended in gas
Alkalinity: 7)	Having a pH greater than 7 (contrast with basic, which meaning having PH less than 7)
Altitude:	Elevations above a level of reference, usually given in feets above sea level
Amino Acids:	Organic compounds that link together to form proteins
Anatomical:	Related to the structure of an organism
Antigen: response	A substance such as a toxin or enzyme that is capable of eliciting an immune response
Antitoxin:	An antibody created for and capable of neutralizing a toxin
Asteroids:	Small celestial bodies that revolve around the sun
Asthenosphere:	The lower layer of the Earth's crust
Bacteria:	Single-celled microorganisms
Basalt:	Solidified lava; a denses, dark grey, fine-grained igneous rock
Basic:	Having a pH less than 7 (contrast with alkalinity)
Biomass:	Total mass of all living matter within a given area
Biosynthesis:	The production of a chemical compound within the body
Boiling point:	The temperature at which a liquid changes state from a liquid to a gas
Capillary:	A very slim tube; one of a network of extremely small blood vessels
Carbohydrate:	Sugars and starches that serve as a major energy source for animals

Celsius:	A temperature scale in which the freezing point of water is 0 and the boiling point is 100 degrees under normal atmospheric conditions
Cerebral edema:	Brain swelling
Chlorophyll:	A green pigment produced in response to sunlight during photosynthesis
Cholesterol:	A soft waxy compound found in the body and the food we eat
Colloid:	A gelatinous material
Compressibility:	The ease at which pressure can alter the volume of matter
Condense:	To become more compact; to change from vapor to a liquid
Diffusion time:	The time that it takes for material to spread from one area to another
Dilute:	To weaken the strength of a solution
Disperse:	To scatter or spread out
Dissolution:	The process of dissolving or disintegrating
Drag force:	The force that resists or slows down motion through a medium such as air
Ecology: environments	The field of science that concentrates on relationships between organism and their environments
Emulsion: dissolve in one another	A state in which one liquid is suspended in another because the liquids will not dissolve in one another
Equilibrium:	A state of balance
Experimental Variables:	Elements of an experiment that are changed (distinguished from constants, which are held the same in order to produce significant results)
Fahrenheit: point is 32 degrees	A temperature scale in which the boiling point of water is 212 degrees and the freezing point is 32 degrees
Fermentation:	The chemical process of breaking down an organic substance into simpler substances, such as a fermentation of sugar to alcohol
Foliation:	The alternating layers of different minerals compositions within solid rocks
Friction:	The force resistant to motion
Galvanism:	A direct electric current produced by chemical reactions

Gas:	A substance (such as air) that possesses the quality of indefinite expansion
Gas chromatograph:	A device used to detect the composition of an unknown material
Gastric emptying: colon.	The movement of food from the stomach to the small intestine, and finally into the
Gravity:	The force of attraction between two bodies of mass
Herbivorous:	A plant-eating organism
Humidity:	A measure of how damp air is
Hydrogen bonding:	The chemical bonding of hydrogen atom with another electronegative atom
Igneous rock:	Rocks that are formed by the cooling and solidification of molten magma
Indigenous:	Native to or naturally existing in a certain area
Interstitial:	Fluid outside of cells; in the small spaces between other things
Intracellular:	Fluid in cells
Isotopes:	Two or more atoms with an identical atomic number and differing electric charges
Lipid:	An oily or waxy organic compound that cannot be dissolved in water
Liquid:	A material that is neither a solid nor a gas; flowing freely
Lithosphere:	The outer part of the Earth that includes the crust and upper mantle
Kelvin:	A temperature scale in which 0 K is absolute zero, the freezing point of water is 273 K, and the boiling point of water is 373 K
Macrophages:	Protective cells
Manometer:	A device that measures the pressure of liquids and gases
Melting point:	The temperature at which a solid softens into a liquid
Mesosphere:	A layer of atmosphere 50 to 80 kilometers above the Earth's surface
Metamorphism: chemistry	The process of altering solid rock by changing their temperature, pressure and
Meteorite:	A meteor that reaches the surface of the earth before it is entirely vaporized

Microorganism:	An organism of microscopic or very small size
Mole:	A unit of measurement for the molecular weight of a substance
Molecular weight:	The weight of all the atoms in a molecule
Nanometer:	One billionth of a meter
Newton:	The amount of force needed to accelerate a 1-kilogram mass at a rate of 1 meter per second, per second
Organic Matter:	Matter that is derived from living or formerly living organisms
Organism:	A living thing, either plant or animal
pH	A scale that measures how acidic or basic a substance is on a scale of 0-14. Lower numbers indicate acidity and higher numbers indicate increasing basicity.
Photophores:	Organism that produce light
Photosynthesis:	The process by which plants turn carbon dioxide and water into energy with the aid of sunlight
Pigmentation:	Coloration
Protein:	A compound that consists of amino acids and plays various structural, mechanical and nutritional roles within organisms.
Radioactive decay:	A natural process by which an atom of a radioactive isotope spontaneously decays into another element
Saturations:	A state of being completely full or soaked
Solid:	Neither gas nor liquid; of the same or coherent texture
Solute:	A dissolved substance
Solution:	A mixture of two substances
Specific gravity:	The ratio of the weight of one substance to the weight of another substance
Stratosphere:	A layer of atmosphere between the troposphere and the mesosphere
Supercooled:	Below freezing but remaining a liquid
Suspension:	The state of a substance when its particles are combined together but have not been dissolved in a fluid or solid

synthetic polymer:	A man-made, repeating chain of atoms
Territorial:	The protective behavior that is displayed when an animal is defending its area
Synthetic polymer:	Man-made, repeating chain of atoms
Thermal degradation:	A process of combustion in which materials in a fuel are broken down into several by products
Thermosphere:	The outermost layer of the atmosphere
Vapor pressure:	The pressure exerted by a vapor
Vaporize:	The change into a cloud of diffused matter
Velocity:	Speed of motion
Vertical Migrants:	Marine species that travel toward the surface of the ocean to feed
Viscosity:	A fluid resistance to flow
Wavelength:	The distance between repeating crests of waves