

screw simple machine consisting of an inclined plane wrapped around a rod (140)

second-class lever lever that has the output force between the fulcrum and the input force (e.g., bottle opener) (133)

selective permeability refers to the property of a barrier, such as a cell membrane, that allows only certain substances to pass through it (24)

septic system self-contained wastewater treatment facility (325)

septic tank tank in which wastewater from all indoor sources such as toilets, sinks, and bathtubs enter (325)

simple machine machine that requires the application of a single force to do work (128)

skeletal system system made up of bones and cartilage; provides support for movement, attachment points for other tissues, and protection of other organs (e.g., the spine protects the spinal cord) (68)

slurry mixture of water and solids (193)

specialized cell cell that performs a specific function and interacts with other types of cells in the organism in order to carry out its task successfully (43)

spring scale (Newton gauge) most common force meter; consists of a spring with a hook on the end; as more force is applied to the hook, the spring stretches farther (101)

stage part of a microscope on which a slide is placed for observation (14)

sustainability ability of something to exist or be used at the same level for a long period of time without being damaged, harmed, or reduced for future use (338)

system group of individual parts or procedures that work together as a complex whole to accomplish a desired task (90)

T

thermal expansion increase in the volume of a substance in response to an increase in its temperature (200)

third-class lever lever that has the input force between the fulcrum and the output force and the input and output forces are in the same direction (e.g., garden rake) (133)

tissue group of specialized cells in an organism that have similar structure and function (62)

transport tissue tissue that contains hollow, tube-like cells that move food and water through the plant (64)

tumour mass of cells that continually reproduce but are otherwise non-functional (73)

U

unicellular describes living things made of a single cell (e.g., diatom, amoeba, paramecium) (38)

useful output work work that a machine is designed to perform (145)

V

vacuole large, membrane-bound, sac-like organelle that stores excess food, waste, and other substances required by the cell (18)

valve device that controls the flow of fluids (247)

viscosity resistance of a fluid to flow (210)

volume measure of how much space a substance takes up (197)

W

water table upper surface of the groundwater zone (282)

watershed area of land where all the water eventually drains into one main water body, such as a stream, river, wetland, lake, or ocean (286)

wedge simple machine consisting of an inclined plane that travels through an object or material (140)

weight amount of force on an object due to gravity (100)

well long, hollow shaft drilled down into an aquifer to obtain fresh water (282)

wheel and axle simple machine consisting of a shaft or axle that is attached to a larger disk called the wheel (e.g., screwdriver) (137)

work amount of effort expended when a force causes an object to move a distance and energy is transferred (106)