

	Word	Definition	Synonym
1	organic compound	compounds that contain carbon	carbon
2	inorganic compound	compounds that do not contain carbon	no carbon
3	homeostasis	the process by which an organism's internal environment is kept stable in spite of changes in the external environment	stable
4	selectively permeable	a property of cell membranes that allows some things to pass through but not all things	picky
5	passive transport	the movement of materials through a membrane without using energy	no energy
6	diffusion	when molecules move from high to low concentration	high to low
7	osmosis	diffusion of water	water
8	active transport	the movement of materials through a membrane that uses energy	energy
9	autotroph	an organism that makes its own food	plant
10	photosynthesis	the complex process of capturing the energy in sunlight and changing it into food	light makes food
11	stomata	the small openings on the underside of a leaf that allow carbon dioxide to enter and oxygen to leave the leaf	breathe
12	heterotroph	an organism that cannot make its own food	animals
13	transpiration	the process by which water is lost through a plant's leaves	tree sweat
14	respiration	the process by which cells break down food to release energy using oxygen	uses oxygen
15	interphase	the longest stage of the cell cycle where the cell grows, copies its DNA, and prepares to divide	resting
16	mitosis	the stage of the cell cycle where the cell's nucleus divides into two new nuclei	1 to 2

17	prophase	first part of mitosis; chromatin forms rods and spindle fibers form a bridge between ends of the cell	first
18	chromatin	material in cells that contains DNA and carries genetic information	DNA
19	chromosome	rod-shaped cellular structure made of condensed chromatin	DNA
20	chromatid	one of the identical rods of a chromosome	chromosome
21	metaphase	part of mitosis where the chromosomes line up across the center of the cell and attaches to a spindle fiber at its centromere	meet in the middle
22	anaphase	part of mitosis where the centromeres split and the two chromatids separate; one chromatid moves along the spindle fiber to one end of the cell while the other chromatid moves to the opposite end	move away
23	telophase	part of mitosis where chromosomes begin to stretch out and lose their rod like appearance; a new nuclear membrane forms around each region of chromosomes	two regions
24	cytokinesis	the final stage of the cell cycle where the cytoplasm splits creating two new cells	cytoplasm
25	cell plate	during cytokinesis in plants, a structure called a cell plate forms across the middle of the cell; the plate gradually develops into new cell membranes and new cell walls then form around the cell membrane	pre cell wall
26	meiosis	the process that occurs in reproductive cells (sperm & egg) by which the number of chromosomes is reduced by half	1 to 4 halves