Can You Speak My Language?

1. Autotrophs usually contain chlorophyll and can be unicellular or multicellular.

Name an Autotroph\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Describe the number of cells in an Autotroph.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Key Word Prefix or Suffix:

1. Microscopic heterotrophs are fairly rare. Arthropods are studied by many entomologists and are a great example of a heterotroph with an exoskeleton.

Name a Heterotroph that is multicellular.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name an Arthropod.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Key Word Prefix or Suffix:

1. Abiotic conditions are studied by some Ecologists and Cytologists as they relate to organisms shifting from aerobic to anaerobic respiration.

Give 2 examples of abiotic conditions in this room that could affect you.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

In the above sentence, what abiotic condition would be a limiting factor that causes a shift in the type of respiration?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Key Word Prefix or Suffix:

1. Endocytosis is used by phagocytes in Eukaryotic organisms as a way of eliminating pathogenic bacteria.

Name a cell in your blood that does what is described above.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What do we mean by pathogenic bacteria? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What do you think happens as phagocytes perform endocytosis?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Key Word Prefix or Suffix:

1. Hydrolysis can turn disaccharides into monosaccharides.

What chemical is needed for hydrolysis to occur? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Is hydrolysis a break down or synthesis reaction? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Key Word Prefix or Suffix

1. Hemoglobin is responsible for carrying a very important chemical to cells for aerobic respiration.

Where in the body is hemoglobin found? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What does hemoglobin carry? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Key Word Prefix or Suffix

1. Meiosis produces haploid cells from diploid cells which reduces the chromosome number by one half in gametes.

Which has more chromosomes, a haploid or diploid cell? \_\_\_\_\_\_\_\_\_\_\_

What kind of cells are gametes?\_\_\_\_\_\_\_\_\_\_\_\_

How many chromosomes are found in a human cell after Meiosis?\_\_\_\_\_

Key Word Prefix or Suffix:

1. Intracellular pressure can increase in plant cells during osmosis when plants are exposed to hypotonic solutions. Hypertonic solutions cause cells to shrink.

Where is cell pressure high?\_\_\_\_\_\_\_\_\_\_\_\_

What is causing the increase in pressure?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Which type of solution do plant cells like? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Key Word Prefix or Suffix:

1. Prokaryotic cells are often Archaebacteria that do not have a membrane bound nucleus.

Which came first…Prokaryotic or Eukaryotic cells?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What do Prokaryotic cells lack that Eukaryotic cells have? \_\_\_\_\_\_\_\_\_\_\_\_\_

Key Word Prefix or Suffix: