

**Differences between Eukaryotes and Prokaryotes**

Category	Prokaryotes	Eukaryotes
Size	26.	27.
Organelles (yes/no)	28.	29.
Nucleus (yes/no)	30.	31.
Type of organism	32.	33.

**Differences between plant and animal cells**

Category	Plant Cell	Animal Cell
Border	34.	35.
Organelles that provide energy	36.	37.
Large vacuole (yes/no)	38.	39.
Shape (regular or irregular)	40.	41.

**Matching (1pt each):**

**STRUCTURE**

- \_\_\_ 42. Cell Membrane
- \_\_\_ 43. Mitochondria
- \_\_\_ 44. Lysosomes
- \_\_\_ 45. Nucleus
  
- \_\_\_ 46. Endoplasmic Reticulum
- \_\_\_ 47. Golgi Apparatus
  
- \_\_\_ 48. Chloroplasts
- \_\_\_ 49. Ribosomes
  
- \_\_\_ 50. Vacuole
- \_\_\_ 51. Cell Wall

**FUNCTION (JOB)**

- A. Responsible for protein synthesis (not the site of)
- B. The organelle where photosynthesis happens
- C. Rigid barrier of a plant cell
- D. A small saclike organelle that contains digestive enzymes that help the cell break down large molecules of carbohydrates, proteins, and lipids
- E. The place in the cell where DNA is located
- F. A thin layer of lipid and protein separating the cell's contents from the outside environment
- G. A membrane-bound sac or compartment within plant cells that absorbs water or may store proteins
- H. An organelle that changes energy found in food compounds into energy necessary to power the cell's functions
- I. Organelle that is the location for protein synthesis
- J. A membrane-bound organelle that packages and secretes products from the cell

**Short Answer (1pt each)**

List the three components of cell theory

52.

53.

54.