

Name _____ Date _____

CELL AND THEIR ORGANELLES

The cell is the basic unit of life. The following is a glossary of animal cell terms. All cells are surrounded by a cell membrane. The cell membrane is semipermeable, allowing some substances to pass into the cell and blocking others. It is composed of a double layer of phospholipids and embedded proteins. Plant cells have an additional layer surrounding them called the cell wall. The cell wall is made of nonliving material called cellulose. The centrosome (also called the "microtubule organizing center") is a small body located near the nucleus. The centrosome is where microtubules are made. During cell division (mitosis), the centrosome divides and the two parts move to opposite sides of the dividing cell. The centriole is the dense center of the centrosome. Microtubules are shaped like soda straws and give the nucleus and cell its shape.

1. At what level of organization does life begin?

the cellular level

2. What surrounds all cells?

cell membrane

3. What is meant by semipermeable?

some substance can pass through the cell, while others are blocked

4. What 2 things make up the cell membrane?

phospholipids and embedded proteins

5. The cell membrane is also called...

plasma membrane

6. What additional layer is found around the outside of plant cells and bacteria?

cell wall