

Cell Transport Worksheet

1. A cell was poisoned by a substance that destroyed all of its mitochondria. Circle all of the cell transport processes listed that would still be able to continue.
- a. Osmosis
 - b. Diffusion
 - c. Active transport
 - d. Exocytosis

1. Centrioles are only found in animal cells. Their function is to form the spindle fibers during cell division.

2. On the diagram of the cell membrane: Label the following:

- a. Phospho- head
- b. Fatty acid tail
- c. Phospholipid molecule
- d. Cholesterol
- e. Integral protein
- f. Peripheral protein
- g. Carbohydrate chain
- h. Cytoplasm
- i. Extracellular fluid
- j. Cytoskeleton

The diagram shows a cross-section of a cell membrane. On the left, a vertical list of labels (a-j) is provided. On the right, a diagram of the membrane is shown with corresponding labels (a-j) pointing to specific components. The membrane is composed of phospholipids with hydrophilic heads and hydrophobic tails. Cholesterol molecules are embedded within the lipid bilayer. Integral proteins span the membrane, while peripheral proteins are attached to the surface. Carbohydrate chains are attached to some proteins on the extracellular side. The cytoplasm is on the left, and the extracellular fluid is on the right.