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Name _____

Cell Riddles

All living things are made up of cells. Cells are small structures that contain all the biological parts necessary for an organism to live. Cells are made up of smaller structures, called organelles.

Directions: Read each cell riddle below. Decide which organelle the riddle describes, and write the name of that structure in the blank. Note that all possible answers are listed in the top box below.

| | | | | |
|---------------|---------------|-----------------|-----------|-----------------------|
| cell wall | cell membrane | cytosol | nucleus | Golgi apparatus |
| nucleolus | chromosomes | central vacuole | ribosomes | endoplasmic reticulum |
| mitochondrion | chloroplasts | lysosome | | |

| | |
|--|---|
| <p>Riddle #1 I am the jelly-like fluid inside the cell. I provide an area of movement for all the dissolved molecules that keep the cell working. I am the _____.</p> | <p>Riddle #8 We build proteins in the cell. We can be found in several places in the cell, including in the cytosol and on the endoplasmic reticulum. We are _____.</p> |
| <p>Riddle #2 I am found inside of the nucleus. I help produce ribosomes. I am the _____.</p> | <p>Riddle #9 We direct the genetic information of the cell. We are made of DNA, and found in the nucleus, usually in pairs. We are the _____.</p> |
| <p>Riddle #3 I am a thin protective layer around the cell, but I am not one solid piece. I have tiny openings that allow materials to pass in and out of the cell. I am the _____.</p> | <p>Riddle #10 I am the "brain" of the cell, and I control all the activities of the cell. I am located in the cytosol, but you would not find me in prokaryotic cells. I am the _____.</p> |
| <p>Riddle #4 When a cell needs energy, I take in nutrients, break them down, and supply energy to the cell. I can also convert stored energy in the cell to food. I am a _____.</p> | <p>Riddle #11 I am the cell's transport system. There are two types of me, rough and smooth. The rough type has ribosomes attached. I am the _____.</p> |
| <p>Riddle #5 I am a large storage unit in the cell. I am very large in plant cells, and I store water, food, and wastes. I help support the plant. When I start to shrink due to a lack of water, the plant may wilt. I am the _____.</p> | <p>Riddle #12 I am found only in plant cells. I am the outermost part of the plant cell. I am made of a specialized sugar called cellulose. I provide support and protection and give plants their shape, since they don't have bones. I am the _____.</p> |
| <p>Riddle #6 I am a food producer for plant cells. I absorb light energy from the sun and use it to convert carbon dioxide and water to sugar and oxygen. I am not found in animal cells. I am a _____.</p> | <p>Riddle #13 I gather molecules and make them more complex. I store these molecules or send them into the cytosol or out of the cell. I process the proteins produced by the endoplasmic reticulum and ribosomes. I am the _____.</p> |
| <p>Riddle #7 I act like a digestive system in an animal cell. I contain enzymes that break down wastes and other materials. I am a _____.</p> | |

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Life Science

Cell Organelles

| Organelle Name | Diagram | Function | Is it present in animal cells? | Is it present in plant cells? |
|-----------------|---------|----------|--------------------------------|-------------------------------|
| Plasma membrane | | | | |
| Cell wall | | | | |
| Cell nucleus | | | | |
| Mitochondrion | | | | |
| Chloroplast | | | | |
| Ribosome | | | | |
| Proton | | | | |

Name _____ Chapter 3 Movement of Substances Across the Plasma Membrane

WORKSHEET 3.2 The Structure of the Plasma Membrane

Score _____

Label the structure of the plasma membrane in the diagram below.

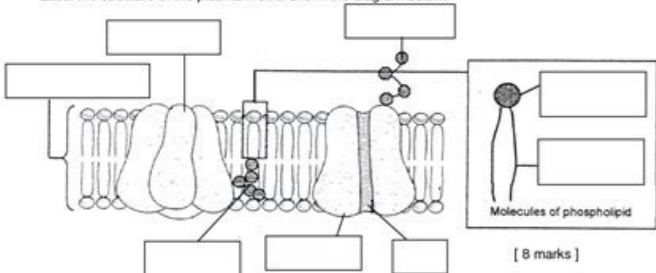
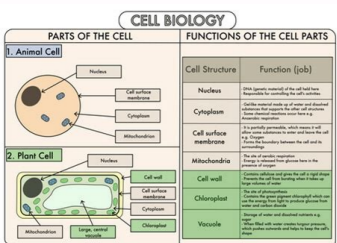


Diagram 3.1: The Fluid-mosaic Model

- The plasma membrane, according to the fluid-mosaic model is composed mainly of _____ and proteins.
- Each phospholipid molecule consists of two parts:
 - A polar head that gives it a _____ property with attraction to water
 - A pair of non-polar tails that give it a _____ property with repulsion by water
- In plasma membranes, phospholipids arrange themselves into two layers (bilayer):
 - The hydrophilic heads of the outer layer face the _____ fluid.
 - The hydrophilic heads of the inner layer face the _____ fluid.
- The _____ acts as a barrier which isolates the two sides of the membrane.
- The phospholipid bilayer also contains _____ which links the fatty acids together.
- Cholesterol makes the plasma membrane stable, stronger, more flexible and less permeable to water-soluble substances such as ions.
- There are two different types of proteins:
 - _____ protein: the protein molecule that forms a channel or pore
 - _____ protein: the protein molecule that acts as a carrier
 Both proteins are referred to as transport proteins.
- Some membrane proteins (lipids) have branching carbohydrate chains attached to them on their outer surface form _____ and glycolipids respectively. [10 Marks]

WJEC BIOLOGY 2010



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