

I'm not robot!

PROKARYOTE vs. EUKARYOTE

Name _____

P = Prokaryotic Cells

E = Eukaryotic Cells

B = Both Prokaryotic and Eukaryotic Cells

E 1. Has a definite, well-defined nucleus.

E 2. Type of cells in your body

B 3. Have DNA

P 4. Bacteria cells

E 5. Multicellular

B 6. Has ribosomes

B 7. Can live as unicellular organisms

E 8. Type of cells found in plants

E 9. Type of cells found in a goldfish

B 10. Carry out every activity associated with living things

| | | | | |
|----------|-----------------|---------|-----------|--------------|
| Lysosome | Chloroplast | Nucleus | Cytoplasm | Mitochondria |
| Ribosome | plasma membrane | vacuole | | |

AND AN ID

Directions: Choose which type of organelle best fits each description. Write the correct organelle in the blank provided next to each clue.

mitochondria 11. I am the powerhouse of the cell.

cytoplasm 12. I am the liquid material of the cell, in which the organelles are suspended.

nucleus 13. I am the control center.

chloroplast 14. I photosynthesize.

vacuole 15. I am very large in plant cells, and much smaller in animal cells.

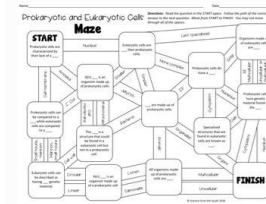
ribosome 16. I am located on the rough ER and also scattered through the cytoplasm.

ribosome 17. We are protein factories. There are many of us.

chloroplast 18. You would find me in the cell of a maple tree or tulip, but not in the cell of a rabbit or goldfish.

lysosome 19. I breakdown old and worn out cell parts.

plasma membrane 20. I am a phospholipid bilayer that allow some materials to pass through the cell.



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 | | |

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 _____.

Riddle #2

I am found inside of the nucleus. I help produce ribosomes. I am the _____.

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 _____.

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 _____.

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 _____.

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 _____.

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 _____.

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 _____.

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 _____.

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 _____.

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 _____.

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 _____.

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 _____.

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