


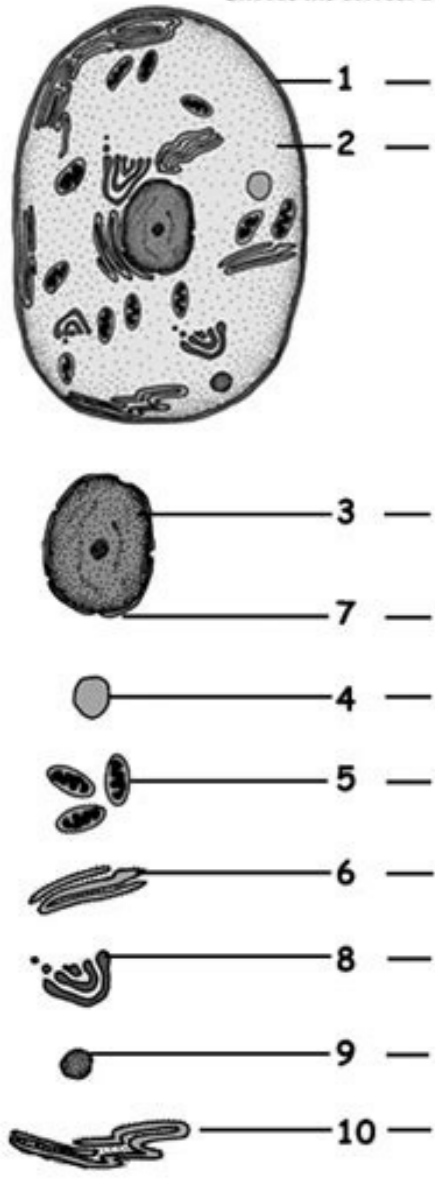
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Cell organelles crossword worksheet answers

The Organelles

Choose the correct description for each organelle.



- A. Mitochondria** - Double-membraned organelles that break down sugar to make ATP to be used as energy by the cell.
- B. Lysosome** - Vesicles with digestive enzymes to break down waste and bacteria.
- C. Plasma Membrane** - The protective outside layer of the cell that lets some things in and keeps others out (semipermeable).
- D. Golgi Apparatus** - Made up of flat vesicles that package things to leave the cell - like hormones.
- E. Cytoplasm** - The watery medium in which the organelles float inside the cell.
- F. Nucleus** - The organelle that contains all our genetic information on 23 pairs of chromosomes making up our DNA.
- G. Ribosomes** - Little grains floating around inside the cell and on the rough ER where proteins are made.
- H. Nuclear Membrane** - Surround the nucleus and controls what goes in and out.
- I. Vacuole** - Membrane sacs for storage.
- J. Rough Endoplasmic Reticulum (rough ER)** - Folded membrane pathways spotted with ribosomes and making new membranes as needed.

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Cell City Analogy

In a city called Gen City, the main export and production product is the steel widget. Everyone in the town has something to do with steel widget making and the entire town is designed to build and export widgets. The town hall has the instructions for widget making, widgets come in all shapes and sizes and any citizen of Gen City can get the instructions and begin making their own widgets. Widgets are generally produced in small shops around the city. These small shops can be built by the builder's union (whose headquarters are in town hall).

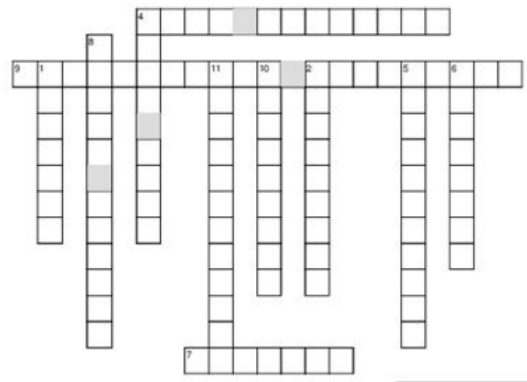
After the widget is constructed, they are placed on special carts which can deliver the widget anywhere in the city. In order for a widget to be exported, the carts take the widget to the postal office, where the widgets are packaged and labeled for export. Sometimes widgets don't turn out right and the "rejects" are sent to the recycling plant where they are broken down for parts or destroyed altogether. The town powers the widget shops and carts from a hydroelectric dam, that is in the city. The entire city is enclosed by a large wooden fence, only the postal trucks (and citizens with proper passports) are allowed outside the city.

Match the parts of the city (underlined) with the parts of the cell.

1. Mitochondria	
2. Ribosomes	
3. Nucleus	
4. Endoplasmic Reticulum	
5. Golgi Apparatus	
6. Protein	
7. Cell Membrane	
8. Lysosomes	

Cell Organelles

Complete the crossword puzzle.



- | | | |
|--|--|---|
| <p>Across</p> <p>4. Moves molecules to move into and out of the cell.</p> <p>7. Storage area for food, water and waste.</p> <p>9. Passage way in the cell that sends messages from the nucleus.</p> | <p>Down</p> <p>1. The central center of the cell.</p> <p>2. Help proteins for a cell.</p> <p>4. Rigid layer of cellulose that protects plant cells.</p> <p>5. Contains chlorophyll that absorbs the sun's energy during photosynthesis.</p> <p>6. Break down food particles.</p> <p>8. Receives, packages, and sends proteins in the cell.</p> <p>10. Holds the cell organelles in place in a cell.</p> <p>11. Place where sugar molecules are broken down so energy can be released.</p> | <p>ANSWERS</p> <p>ACROSS: 4. PLASMA MEMBRANE, 7. VACUOLE, 9. GOLGI APPARATUS</p> <p>DOWN: 1. NUCLEUS, 2. RIBOSOMES, 4. CELL WALL, 5. CHLOROPLAST, 6. LYSOSOMES, 8. ENDOPLASMIC RETICULUM, 10. CYTOPLASM, 11. MITOCHONDRION</p> |
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Cell Structure Worksheet Answer Key

Part 1: Table of characteristics for different cell types.

Part 2: Table of characteristics for different cell types.

Cell type	Characteristics	Animal Cell (✓/✗)	Plant Cell (✓/✗)
Prokaryotic	Contains one cell in genetic material (DNA) (circular, non-nucleus)	✓	✓
Eukaryotic	Contains two or more cells in genetic material (DNA) (circular, non-nucleus) and a lot of membrane structures (mitochondria, Golgi apparatus, etc.)	✓	✓
Animal Cell	Contains one cell in genetic material (DNA) (circular, non-nucleus)	✓	✗
Plant Cell	Contains one cell in genetic material (DNA) (circular, non-nucleus)	✗	✓
Fungal Cell	Contains one cell in genetic material (DNA) (circular, non-nucleus)	✗	✓
Bacterial Cell	Contains one cell in genetic material (DNA) (circular, non-nucleus)	✓	✓
Algal Cell	Contains one cell in genetic material (DNA) (circular, non-nucleus)	✗	✓
Protozoan Cell	Contains one cell in genetic material (DNA) (circular, non-nucleus)	✓	✗
Yeast Cell	Contains one cell in genetic material (DNA) (circular, non-nucleus)	✓	✗

