



Name _____ Class _____ Date _____

The **cell** is the **basic building block** of all living organisms. It is the smallest unit of an organism that can carry out the functions of life.

Some cells are **single**, self-sustaining organisms such as amoebas and bacteria; others cells are part of **multicellular** organisms and cannot survive alone.

Animal Cell

Endoplasmic reticulum is a transport system of tubes and channels connecting organelles in the cell.

Mitochondria convert energy in food molecules to a form the cell can use.

Nuclear pores allow materials to pass in and out of the nucleus.

Nucleus is the control center of the cell. It houses the nucleolus and the genetic material (chromatin).

PREVIEW

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Lysosomes contain enzymes that break down and recycle harmful materials.

Cytoplasm is a gel-like substance containing the organelles.

The cell membrane guards everything that comes in and out of the cell, protecting the cell.

Vacuoles store materials needed by the cell and remove unwanted debris.



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Animal and plant cells have similar and different **organelles**. Plant cells have special parts such as **chloroplasts** and a **cell wall** that animal cells do not.

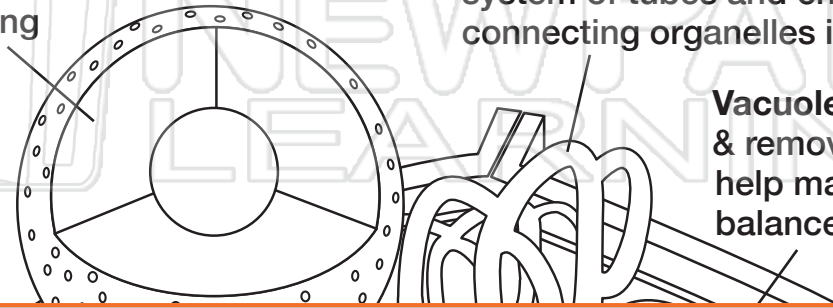
Plant Cell

The nucleus is the control center of the cell - it makes sure the cell is working properly.

Endoplasmic reticulum is a transport system of tubes and channels connecting organelles in the cell.

Golgi bodies package and direct materials made in the cell to where they need to go.

Vacuoles store materials & remove debris. They help maintain water balance in plant cells.



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Mitochondria provide energy to the cell.

Cell membrane is a thin layer that surrounds the cell and controls what enters and leaves the cell.



Chloroplasts contain chlorophyll which captures energy from the Sun and uses it to produce food for the plant in a process known as photosynthesis.

Cell wall is a rigid outer layer of plant cells that provides support and protects the cell.

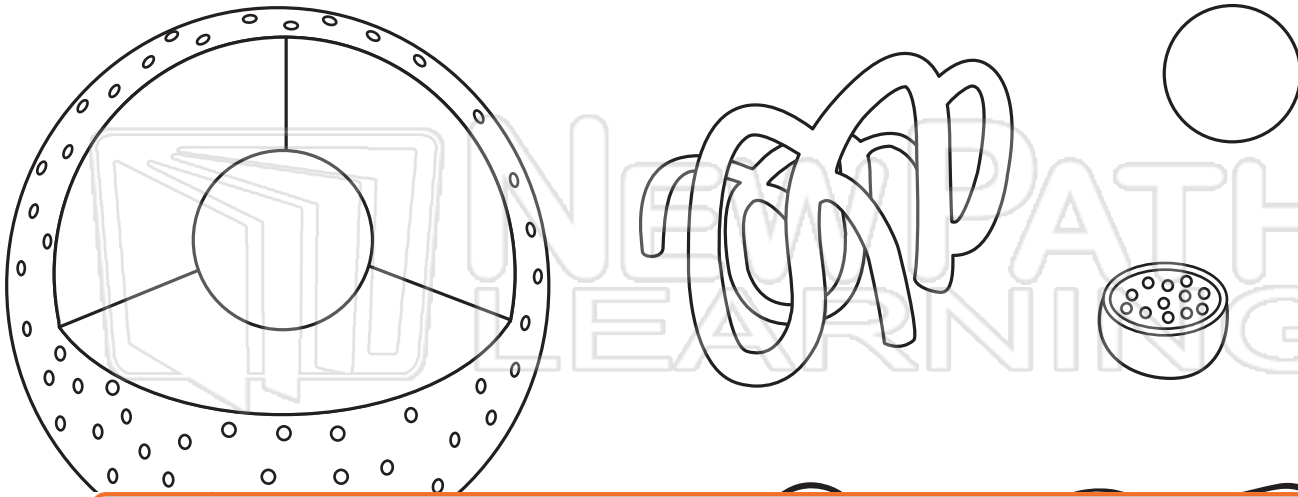


Cells - The Basic Units of Life

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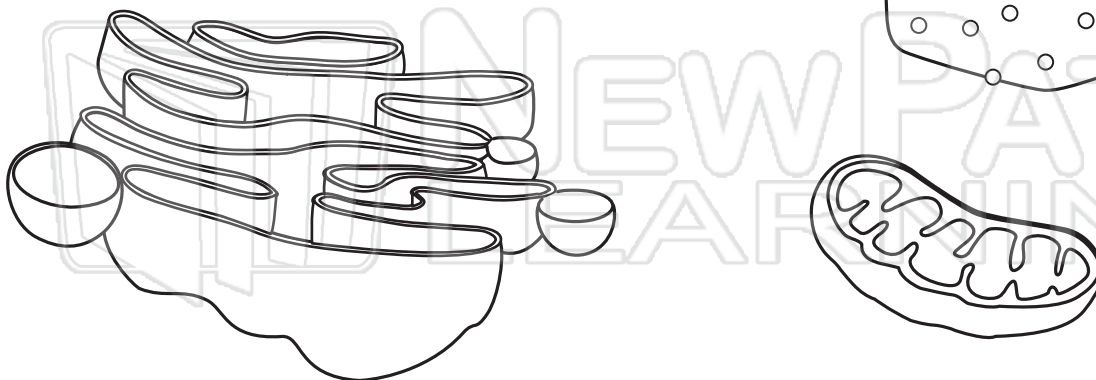
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Color and cut out the organelles. Use the pieces to make an animal cell.



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Add organelles to the animal cell. Label them.



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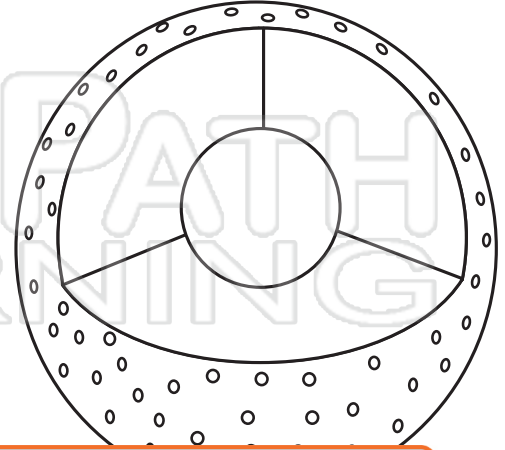
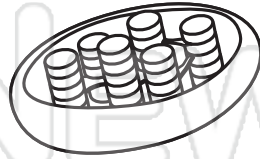
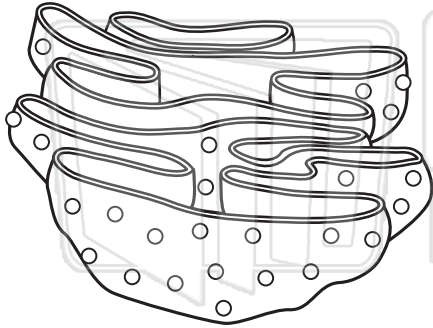


Cells - The Basic Units of Life

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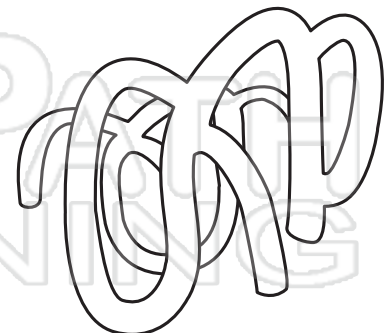
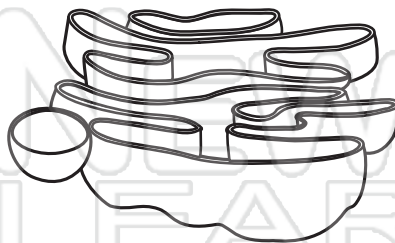
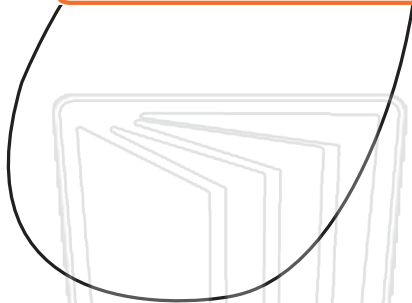
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Color and cut out the organelles. Use the pieces to make a plant cell.



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Add organelles to the plant cell. Label them.





Answer Key - example

Add organelles to the animal cell. Label them.





Answer Key - example

Add organelles to the plant cell. Label them.

