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Cells

simple worksheet on cells

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ID: 30755

Language: English

School subject: Biology

Grade/level: 7-12

Age: 10-18

Main content: Cells

Other contents: Cell structure and specialization, types of cells

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fiafia242

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Name: Yashraj Date: 8.1.21 Biology CELLS Worksheet

SECTION 1: Matching- draw a straight line with a RULER to the correct answer. (9pts)

- Expire: 7 a change in position or location
- Irritability: 9 the process by which oxygen & glucose is used to create energy
- Nutrition: 5 the production of more cells to become larger and heavier
- Excretion: 6 produce offspring
- Growth: 2 respond to stimuli
- Reproduction: 4 removal of metabolic poisonous waste from the body
- Movement: 3 obtain food for body needs- growth and repair
- Cells: 8 all living things are made of cells
- Respiration: 1 all living things eventually die

Arrange the following according to the organization of the human body: (5pts)

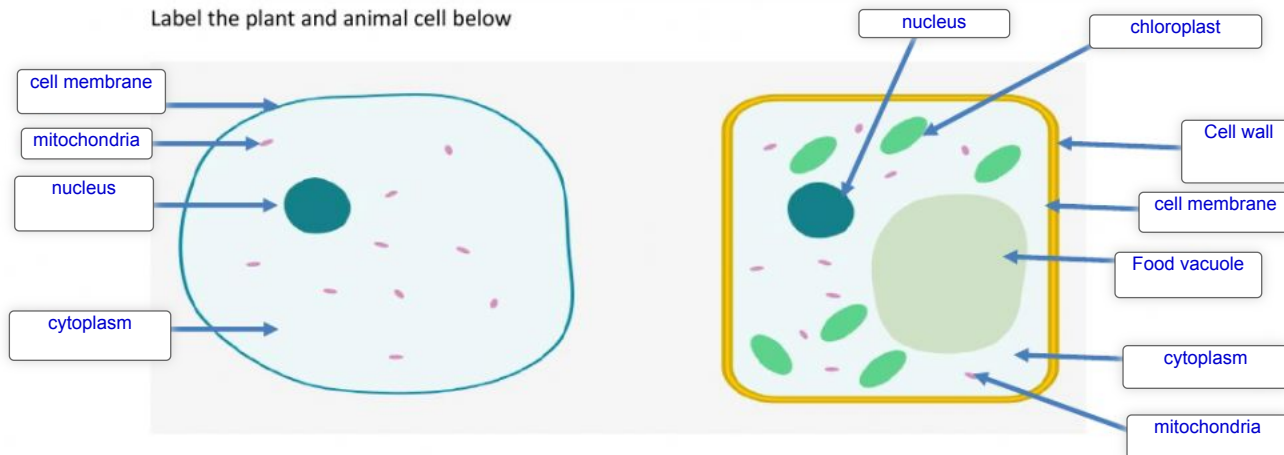
System, tissues, organs, organism, cells

cell --> tissue --> organs --> system --> organism

Section 2: Define the following parts of the cell. (5pts)

- a) Cell: cells are structural and functional unit of life
- b) Cell Membrane: the membrane surrounding the cytoplasm of the cell
- c) Nucleus: a membrane bound organelle that is the brain of the cell
- d) Cytoplasm: a semifluid substance filled between vacuole and cell wall
- e) Vacuoles: a cavity in the cell to store food

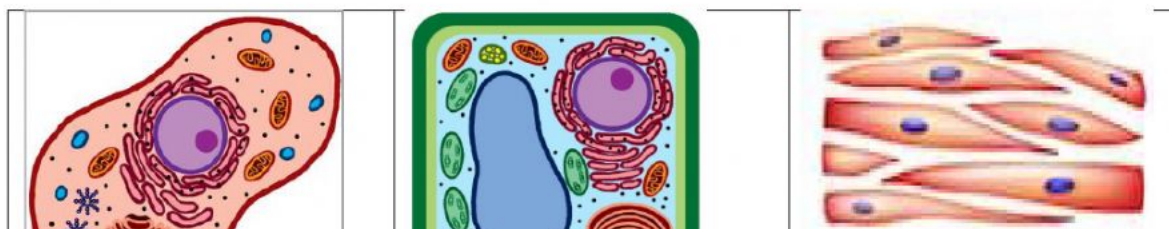
Label the plant and animal cell below




1


LIVEWORKSHEETS

Identify the following cells.

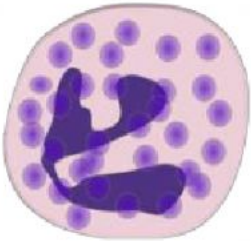




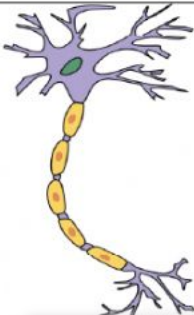
Animal Cells




Plant cell




Spindle Shaped Cells



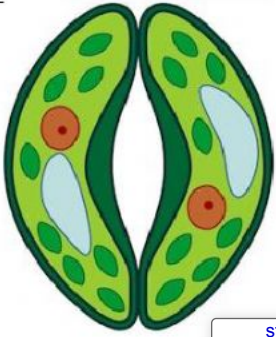
Nerve Cells




RBC



Epithelial Cells



stomata



sperm cell

Put a (v) if present in cell or (X) if not present in cell		
Organelles	Plant cell	Animal cell
Nucleus	y	y
Cytoplasm	v	y
Cell membrane	y	y
Cell wall	y	n
Vacuole	y	y
Chloroplast	v	n
Mitochondria	y	y

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More Cells interactive worksheets

CELL STRUCTURES AND FUNCTIONS		
NAME _____	B.L.O.C.K _____	_/_/20
DATE _____		
<p>Marking (8 marks) Select the letter of a single description that best fits the function of each of the following organelles in the cell. Not all the descriptions will be used.</p>		

<p>_____ 1. Nucleus</p> <p>_____ 2. Vacuole</p> <p>_____ 3. Golgi Apparatus</p> <p>_____ 4. Endoplasmic Reticulum</p> <p>_____ 5. Ribosome</p> <p>_____ 6. Mitochondrion</p> <p>_____ 7. Chloroplast</p> <p>_____ 8. Cell Membrane</p>	<p>A. Contains for genetic information of the cell</p> <p>B. Used for storage of water, food and waste in the vacuoles of the cell</p> <p>C. Synthesises internal energy for the plant cell</p> <p>D. Produces proteins for the cell</p> <p>E. Carries the materials coming in and out of the cell</p> <p>F. Stores energy the cell this organelle and maintains that energy for the cell</p> <p>G. Synthesises and releases energy in the cell and converts it into energy</p> <p>H. Used for storage, protein packing and shipping</p> <p>I. Produce chemical energy for the animal and plant cells</p>
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Word Bank

mitochondrion	chloroplast
rheosome	rough endoplasmic reticulum
smooth endoplasmic reticulum	Golgi apparatus
nucleus	cell wall
oil membrane	vacuole
lysosome	chromosomes
central vacuole	cytoplasm

Cell Structure
by Arthur Simmons

Animal cell

Write the functions for each organelle

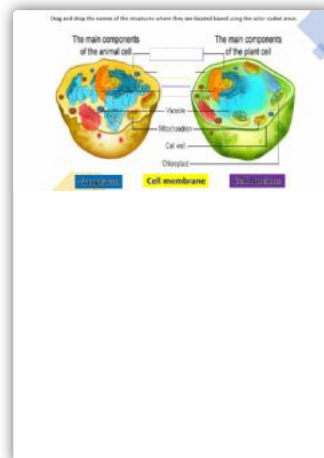
Organelle	Function
Cytoplasm	
Nucleus	
Cell membrane	
Mitochondria	
Ribosomes	

Plant cell

Write the functions for each organelle

Organelle	Function
Chloroplast	
Cell wall	
Permanent vacuole	

Plant and animal cell function
by nferguson



Animal and Plant Cell Similarities

[illegible]

Prokaryote vs Eukaryote

Chapter 11: Cell - Structure and Functions

Activity No. 5a Name: _____

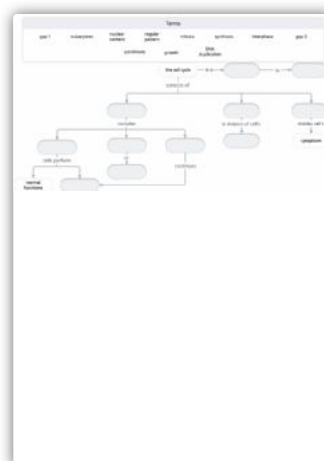
Observe the prokaryotic and Eukaryotic cells and write their differences between them. See what is missing in each and write them as differences

Photo Courtesy: <https://imgsrc.mlb.com/gfx/3558335/MLB/Getty>

The diagram illustrates the structural differences between a eukaryotic cell and a prokaryotic cell. The eukaryotic cell on the left is larger and more complex, featuring a prominent membrane-enclosed nucleus, a mitochondrion with internal folds, and a nucleolus. The prokaryotic cell on the right is smaller and simpler, lacking a true nucleus and membrane-bound organelles. It contains a nucleoid region, a capsule (noted as present in some prokaryotes), and a cell wall (noted as present in some eukaryotes).

Eukaryotic Cell	Prokaryotic cell

To identify differences between Prokaryotic and Eukaryotic cells
by **deshmukhsavita2004**



The cell cycle
by eman1988

Name: _____ Date: _____

The Cell as a Cookie Factory *

MASS BIOCHEM 94-95 Q-2: Describe and use a model to describe the function of cell as a whole and explain parts of the system. What is the function of each organelle in a cookie factory?

5. Complete a cell to a cookie factory

Predict the cell organelles for each job and then write a description of the function. Use the activities on the next page to help you

Nucleus	Mitochondria	Endoplasmic reticulum	Ribosomes
Lysosomes	GRA	Cytoplasm	Being separate
			Cell membrane
			Vacuole

Job in the Factory	Cell Organelle
Boss	
Cookie Recipes	
Workers	
Assembling (the different workers do their work)	
Packaging/Shipping department	
Cookie Warehouse (storage department)	
Semi-factory factory floor	
Factory Wall, floor and ceiling	
Generators (electricity)	
Clean up crew	

Cookie factory--
by ChristinaHage

Chapter 11. Cell- Structure and Function

Activity: _____ Name: _____

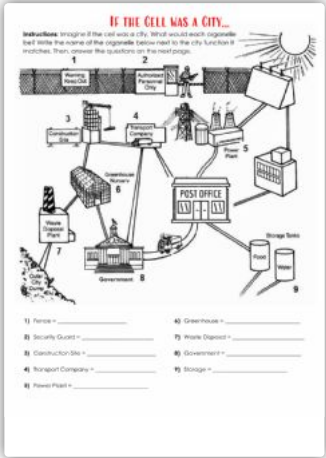
Observe the two diagrams below and Spot the differences between them

Plant Cell	Animal Cell

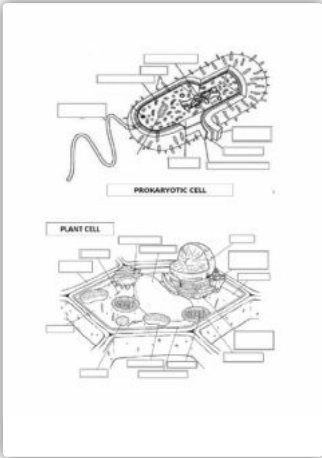
Writing Differences between Plant and Animal cells
by **deshmukhsavita2004**

[illegible]

Biology Course 1 Cells Proficiency Sheet
by Apochilypse



Cells
by koreen89



Cells
by ArturBaranowski

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