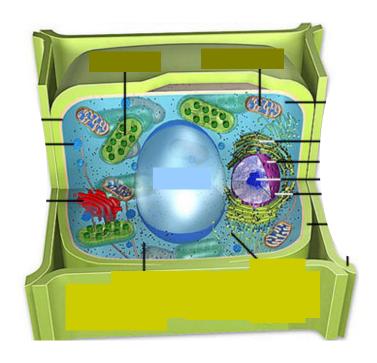
Science 10-Biology Activity 1

Worksheet on Cell Structure and Organelles

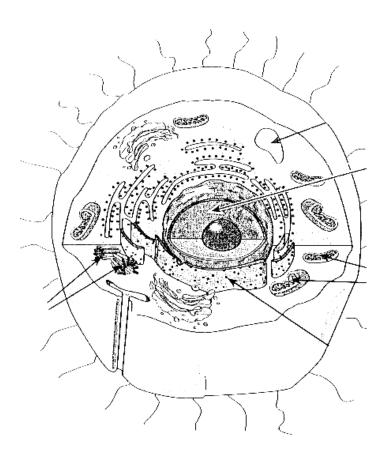
	Name
	Date
20	Due Date Hand In
	Correct and Hand In by

This worksheet is based on the material on pages 328-331 of the Science Probe 10 Text, on the Power Point Presentation on Cells and the Flashcards on Cells.

1. Label and show the locations of the following organelles on the diagram of a plant cell below: Cell wall, cell membrane, cytoplasm, mitochondria, chloroplast, nucleus, vacuole, endoplasmic reticulum, golgi apparatus, lysosomes, nuclear membrane, ribosomes, nucleolus.



2. Label and show the locations of the following organelles on the diagram of an animal cell below: Cell membrane, cytoplasm, mitochondria, centrioles, nucleus, vacuole, endoplasmic reticulum, golgi apparatus, lysosomes, nuclear membrane, ribosomes, nucleolus, cilia.



What orga	nelle does an animal cell have that a plant cell doesn't?
What is th	e function of these organelles?
How are th	ne vacuoles in animal cells different from those in plant cells?
What two	organelles do plant cells have that animal cells don't?
&	Give the functions of these two organelles.
1	Function
2	Function

6. On the following table, for each organelle, draw a simple diagram and briefly outline its function.

Organelle	Diagram	Function	
Cell Wall		Found only ince	ells
Cell membrane		,	
Nucleus			
Mitochondria			
Vacuole			
Endoplasmic Reticulum			
Ribosomes			
Centrioles		Found only ince	ells
Chloroplast		Found only ince	ells
Cilia			
Flagella			
Lysosomes			
Golgi Apparatus			

Describe in detail how lysosomes help to clean up dead organelles and intruders like viruses from

What organelles produce spindle fibres What will these spindle
fibres eventually be used for?
Write the chemical equation for photosynthesis.
What organelles does photosynthesis take place in?
What substance (pigment) is necessary for this process?
This process and these organelles are present only in cells.
Write the word equation for cellular respiration.
What organelles does cellular respiration take place in?
The job of ribosomes is to assemble from their building block
called What makes the surface of the "rough endoplasmic
reticulum", rough?
Which organelle contains DNA and uses it to control the rest of the cell?
Why do plant cells need cell walls?
What is meant by "selectively permeable"
Theis selectively permeable

7.