

Name: _____

Date: _____



Cell Structures Involved in Cell Division

Key Question: What role do cell structures play in cell division?

BEFORE YOU READ

Study Figures 1 and 2. Complete the chart below.

	Purpose of the graphic	What questions do you have?
Figure 1(a)		
Figure 1(b)		
Figure 2		

WHILE YOU READ

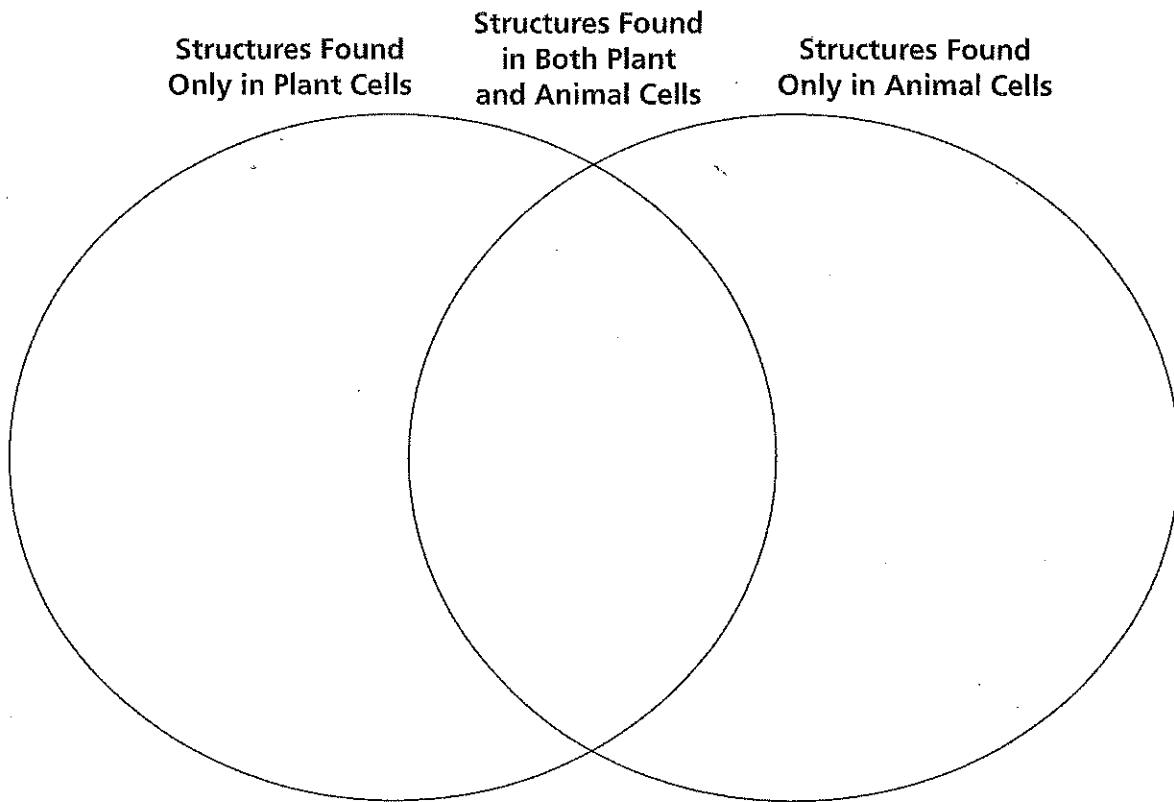
Complete the following chart to summarize cell structure involvement in cell division.

Structure	What is it?	What is its role (job) in cell division?
nucleus		
chromosome		
nucleolus		
ribosome and endoplasmic reticulum		
cytoplasm		

Cell Structures Involved in Cell Division (continued)

AFTER YOU READ

- Complete the following graphic organizer to compare the similarities and differences between the structures of plant and animal cells.



- Use your completed graphic organizer to explain to a partner how plant and animal cells are similar and different.

Note: Use the following terms in your explanation: chromosomes, DNA, nucleolus, ribosomes, endoplasmic reticulum, cytoplasm.

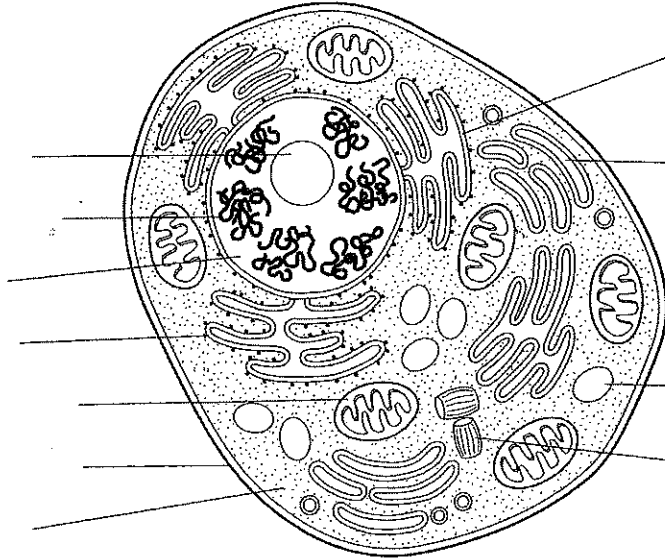
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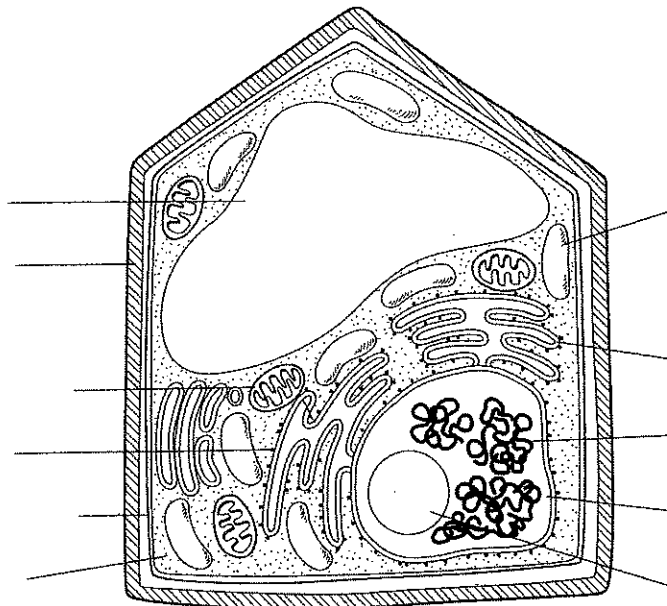
Animal Cell and Plant Cell

Label the following diagrams.

Animal Cell



Plant Cell



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Comparing a Plant Cell to a Factory

In a small group, read and discuss the task and complete the chart. Be prepared to share your comparison with the class.

Task

Choose a factory or company that produces a product familiar to you (for example, a guitar factory, an automobile factory, or a computer company). Identify the part of the factory that corresponds to each cell part in the chart below. In the third column explain your comparison.

Cell Part	Factory Equivalent	Reason for Comparison
nucleus		
mitochondria		
cell membrane		
nuclear membrane		
Golgi apparatus		
ribosomes		
endoplasmic reticulum		
chloroplasts		