

# Cells Review Guide #

1. Complete the following table about cell Organelles.

Organelle	Function	Location (Plant/Animal/Both)
Cell membrane		
Cell wall		
Ribosome		
Smooth ER		
Rough ER		
Centrioles		
Flagella		
Cilia		
Nucleus		
Nucleolus		
Nuclear membrane		
Vacuole		
Lysosome		
Golgi body		
Mitochondria		
Chloroplast		

2. List the parts of the cell theory AND who developed each part.

3. Explain the difference between a plant and animal cell using 3 distinguishing characteristics.

4. Indicate which type of organism can complete the description listed.

	Prokaryotes	Eukaryotes
This organism can break down molecules to generate energy		
These have cells that lack any type of organelle.		
These do not have a nucleus		
These are considered to be unicellular		
Contain a cell membrane		
These have DNA or RNA as the genetic material		
These have DNA only as the genetic material		
These are capable of causing diseases		

**5. Explain the difference between unicellular organisms and multicellular organisms.**

**6. Viruses**

- 6a). Define it.
- 6b). What type of genetic information can it have?
- 6c). Why is it considered to be non-living? List 3 reasons.
- 6d). List 4 types of viral diseases.
- 6e) List the 2 main methods of how a virus can reproduce.

**7. Bacteria**

- 7a). Name and draw the 3 shapes of bacteria
- 7b) How do you name a bacteria?
- 7c). List 3 types of bacterial diseases.
- 7d). How can you kill a bacteria?
- 7e) How can a bacteria cell reproduce?

**8. What did these individuals do for the Germ Theory?**

Louis Pasteur	8a
8b	created sanitary practices in military hospitals which helped to decrease soldiers death
Joseph Lister	8c
8d	first to use rubber gloves when treating patients especially in surgery
Robert Koch	8e