



## Cell Organelle Review Game

**Annotation:** This is a quick and easy game that students can play to review the organelles inside both plant and animal cells. Students will use the definition to identify the appropriate cell structure and its role inside the cell. They also will identify if these structures are present in both plant and animal cells.

**Primary learning outcome:** To identify and understand the functional roles of cell organelles in plant and animal cells.

### **GPS Standard:**

SB1. Students will analyze the nature of relationship between structures and functions in living cells.

### **Time duration**

15 minutes

### **Materials**

Chalk board

Pictures of cell organelle (attached)

Definitions of cell organelle function

Tape

Note cards (optional)

### **Procedures**

#### Preparation:

#### *Cells*

There should be a large outline of both a plant and an animal cell drawn or taped to the chalk board and labeled (note: This can also be modified to compare prokaryotic and eukaryotic cells).

#### *Cell organelles*

Attached is a copy of approximately 9 illustrations of cell organelles. Each team should have 2 copies of these illustrations with tape on the back.

#### *Definitions*

For each structure that is going to be highlighted in the game a definition must be obtained from another source, like the class textbook glossary.

#### Objective:

After the definition is read, students from both teams must identify the appropriate cell organelle that is being defined and place it in the appropriate cells (plant, animal or both) before the other team gets there to gain points.

*Note:*

*It is your job as the teacher to set up the main objective of the game before it is played. This game can be modified to fit your needs. You want to highlight what you feel that the students need the most help in. For example, if you are just covering the basic cell organelles and their roles in plant and animal cells, then you can follow this lesson plan as given. But if you are going to do a more in depth review, covering structures like messenger RNA, or even processes that occur in the cell (photosynthesis), you might have to expand just a little.*

Rules

1. The first team that has the appropriate organelle in the appropriate cell gets the points.
2. Only one team member from each team can run to the board. It is preferred that the same student does the running each time.
3. The students must have the appropriate cell organelle in the appropriate cell or cells to gain points. For example, if a student puts the illustration of a cell wall in both the plant and animal cell they do not get any points.
4. Each organelle is worth 5 points.

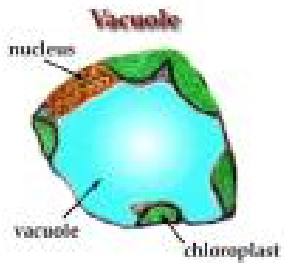
**Assessment:**

This is a review game. The ability of the students on each team to identify the organelles and their functions should give a good indication of their understanding of the material covered.

## Illustrations of Cell organelles

### Note:

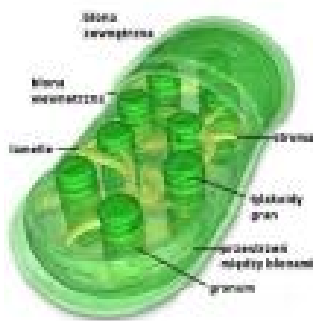
The pictures below are to be used as pictures that will for a review game of cell organelles. They were obtained via the World Wide Web from a variety of websites and are to be used as illustrations for this activity **only**.



### Central vacuole



### Mitochondria



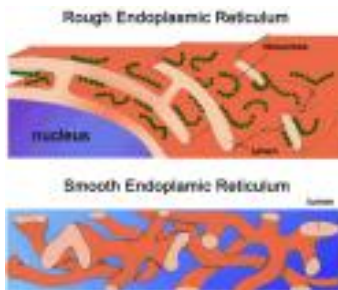
### Chlorophyll



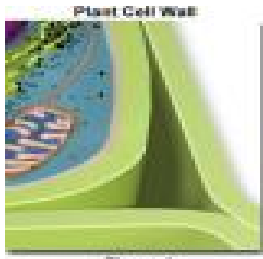
Golgi apparatus



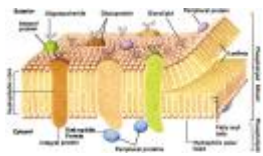
Ribosome



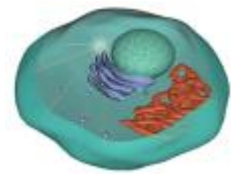
Endoplasmic reticulum



Cell wall



Cell membrane



Nucleus