

BIOLOGY

The Basic Unit of Life the Cell

The cell was first discovered by Robert Hooke in 1665 from that time on, individuals and teams of scientist have studied the cell and discovered many of its properties.

As we take a closer look at these units of life your job will be to work in a group making a model of both an animal and plant cell these models must be at roughly 12" x 12" and include all of the parts on the attached list. Each team member will be responsible for knowing all the cell organelles in general, but will become an expert for two of them.

Job Description of
Each team member:

I give the students very little information as to how to make their models, no material list, no examples, and no pictures. I want the groups to have to develop their models using the scientific procedure that has been taught to them. Starting with a hypothesis and ending with their completed project. This is the value beyond the classroom

1. Will take on active part in producing the models. Be careful to include assigned parts of the cell and organelles. Extra points can be earned by doing other unassigned parts.
2. Keep a daily journal of what you observe as you develop your model.
3. Develop a written explanation for two of the organelles describing their function, how the cell as unit depends on them.
both of these will be an edited copy and must be done on the computer (Arial font of 12 with 1 inch margins).
4. actively take part in the general model building

Job Description
Each Team:

1. You are part of a team of scientist making a model of both animal and plant cells. You must include the assigned organelles.
2. You will have one class period to work on this project, all other work will be completes on your own time.
3. You will evaluate your own project as well as those in one other class.

The projects will be evaluated by the instructor the individuals in the group and another biology class

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Assigned Cell Organelles

For both plant and animals cells

Cell (plasma) membrane
Nucleus
Cytoplasm
Nuclear Envelope
Endoplasmic reticulum (ER)
Ribosomes
Mitochondria
Lysosomes
Golgi Apparatus
Microtubules
Microfilaments
Vacuoles

Plant Cell ONLY

Cell wall
Plastids
Chloroplast
Grana
Other color pigments

THE HISTORY OF THE

REIGN OF KING

CHARLES THE FIRST

BY

JOHN BURNET

OF THE UNIVERSITY OF

OXFORD

IN TWO VOLUMES

THE SECOND

VOLUME

OF THE HISTORY

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Cell Project

Name _____

Group Members _____

Not there yet 5 Points	Almost there 7 Points	Good 8 Points	Excellent 10 Points
Missing a number of parts of the cell, or parts not correctly labeled	Missing a organelle or two or not correctly labeled	Required parts are correctly labeled and identified.	Extra parts labeled and identified
Waste materials does not cleanup work area or use equipment properly	Uses materials properly or cleans work area	Uses materials properly and cleans work area	Cleans work area & helps organize materials at the end of class; project
Appearance shows a lack of effort, difficult to follow	Organization not easy to follow	Neat and organized easy to follow	Creative with materials information and appearance
Written reports Plagiarized	Shows little effort only used book as a reference	Uses text book shows a bibliography and done in Arial font of 12	Uses a variety of sources with bibliographies and done in Arial font of 12 with 1 inch margins
Over all work ethic Wastes time	Had to be told to get to work	Will get to work but does not stay on task	Keeps on task and is a leader

Total Points _____/50

