

The Cell - Internet Activity

Directions: Use the [links](#) provided on the class website to find the answers to the questions.

Cell Site #1

1. To observe most cells you will [need a](#) ...

Name a cell you do not need this tool to observe.

2. [Who](#) first used the term "cell"?

Cell Site #1 and #2

3. Use this table to compare a plant cell to an animal cell.

Use the [illustration](#) to write the structures found in each kind of cell. [Cells: The Building Blocks of Life!](#)

Plant	Animal
Nucleus	Nucleus

Which has more structures: an animal cell or a plant cell?

Cell Site #3

4. Harness the resources at Cells Alive.com to answer the questions in section 4.

What is the cell cycle?

Plant cells have chloroplasts. What does a chloroplast do?

Chloroplasts contain a chemical called

Name the light related chemical reaction that occurs in the chloroplasts.

Cell Site #4 and #5

5. Organelles - write the function of each organelle. [Cells II site](#) / [ThinkQuest Cell Biology site](#)

mitochondria

cell membrane

ribosomes

nucleus

endoplasmic reticulum

nucleolus

golgi apparatus

lysosome

vacuoles

cell wall

Cell Site #6

6. We do not use food's energy directly. Name the [molecule living things](#) use for energy.

Cell Site #7

7. Plant cell walls are made of [cellulose](#). List some ways people use cellulose.

8. Living organisms can be classified in to 5 kingdoms. (Use your online research skills to find an answer.)

Name them. Which are eukaryotes? Which are prokaryotes?

Cell Site #8

9. [What is a genome and why is it so important?](#)

Cell Site #9

10. Watch - [Stem Cells Breakthrough](#)

How does the technological discovery resolve an ethical dilemma?

What are the dangers of this new discovery?

Career Considerations -

What do we call a person who studies cells? (Use your online research skills to find the answer)

Cell Site #10

The US Department of Labor predicts the need for people in different fields of work in the [Occupational Outlook Handbook](#).

What do they predict to be the need for people in the cellular biology related jobs?

Select one of the biology related fields What is the salary range?

Select a field/job - What kind of training or education is needed for the job?