

The Cell - Internet Activity

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

Use the **Go Menu** of your browser to return to the activity web page. [printer worksheet](#)

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"?

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?

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.

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

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

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?

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

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)

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?

- This work is released to public domain in honor of [Rosalind Franklin](#), for her essential contributions to discovering DNA.

Explore more:

Observe the online videos at [cells.de](#) to gain greater insight into cellular biology

Watch: [DNA from the beginning](#). Make a 20 question quiz that reviews the material in the videos.

Interesting Challenges:

Size things down at [How big?](#)

[Cell City WebQuest](#)

Learn about the genius of [Robert Hooke](#)

[Explore classification](#)

[Cell crossword puzzle](#) - pdf

[Math behind DNA](#)

[Virtual Cell Animations](#)

[Matching quizzes on cell organelles](#). Use them to review

[Microscope worksheet](#)

[Microscope Mania](#)

[Cells: The Building Blocks of Life!](#)

[A Different Perspective](#) - a microscope exploration

Explore a science subject [Science Close Up](#)

[Emergence - do things organize without an organizer?](#)

[4000 years of Women in Science](#)