

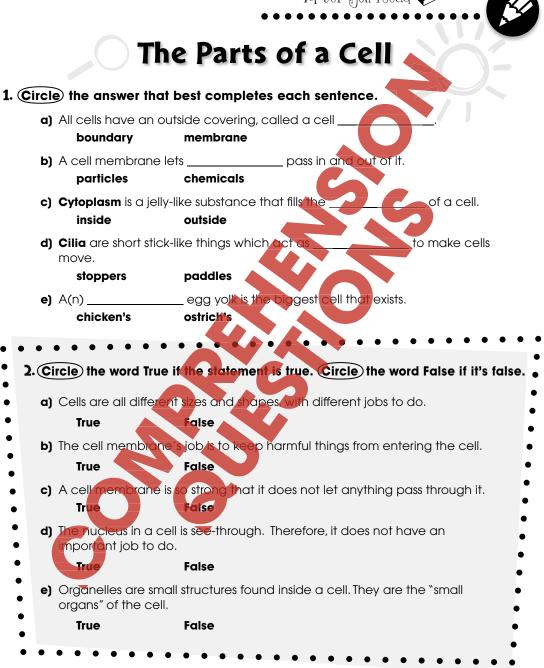
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NAME: _ Reading Passage The Parts of a Cell e now know that cells are different sizes and shapes. They all have different jobs to do, too. We read about how tiny the cells in our body are. But have you ever seen an ostrich's egg yolk? It is much bigger than the one in your sunny-side-up breakfast! It is the biggest cell that exists! Even though cells all look different, they have some parts in common. All cells have an outside covering. This is called the **cell membrane**. Its job is similar to that of our skin. It surrounds the cell and holds the other parts of the cell in place. In general, the cell membrane protects the cell. Although it is strong, the cell membrane lets particles pass in and out of Inside a cell's membrane are a nucleus and cytoplasm. The **nucleus** is the dark part located in the middle of the cell. Just like you have a brain, so does a cell! The nucleus is the cell's "brain". It controls everything that happens in the cell. Every cell is filled a jelly-like substance, called cytoplasm. It "listens" to the nucleus and it is where all the cell's activities take place A cell's nucleus controls everything that happens in the cell. What part of the human body is the nucleus SIMILAR to? How do cells move? Many cells move with the help of cilia. Cilia are short stick-like

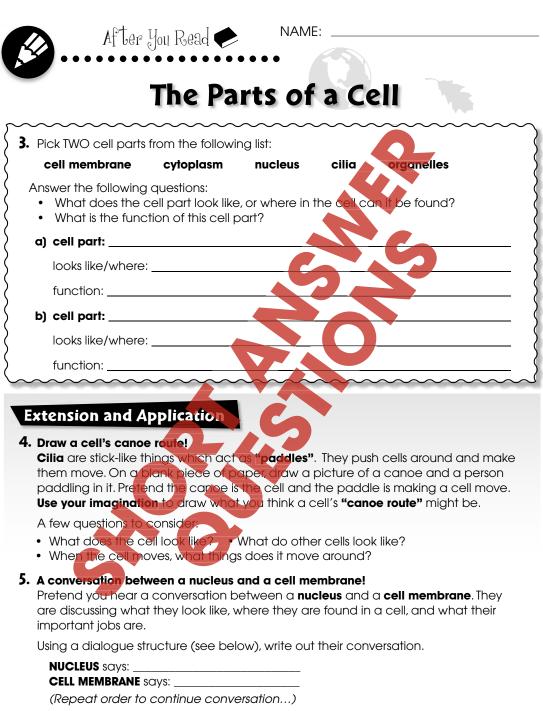
things which act as "paddles". These paddles push the cells around and make them

move. All of the small structures that are found inside a cell are called **organelles**.

They are the "small organs" of the cell, just like we have our own organs in our body.



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Design a DNA Instruction Book

BUILD A PERSON!

DNA is a secret code found in the middle of the cell, in the NUCLEUS. It is a very long list of instructions that gives each cell in your body its own shape and function. Your DNA made you the person you are now!

Now it is your turn to pretend you are the DNA. You will design your own person by creating your own list of instructions. Use your imagination for this activity! You can design any person you can imagine!!

DESIGN AN INSTRUCTION BOOKLET:

Think about something you recently bought at a store that needs instructions to assemble it. It likely came with a small foldout book that shows (with big numbers!) how to assemble the object giving detailed instructions for each step.

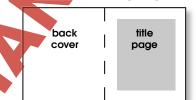
Your teacher will bring in a few examples of such books in case you have never seen one before. Use it as a guideline for your own book you will design.

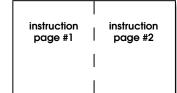
YOUR BOOK SHOULD INCLUDE

- A cover page (just like a title page use diagrams and words to introduce your book)
- Numbers to show each step
- Creative instructions on how to build a person

ellas words! It should be easy to follow and fun to look at!

Use the following page format for your instruction book:





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NAME:

Comprehension Quiz



Part A

Circle the word True if the statement is true. Circle the word False if it is false.

1. Most organisms are made up of millions of cells. There are also some organisms that are made up one cell



True **False**

2. A cactus, a human and an oak tree are all examples of single-celled organisms.

3. The cell's nucleus is like a front door. It controls everything that passes in and out of the cell.

False

aells which carry out specific 4. Most organisms are made up of many specialized functions that support the life of the organism.

False

5. Meiosis and mitosis are two types of cell reproduction.

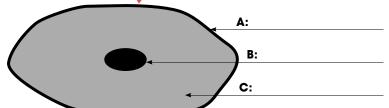
6. Plant cells can only be found in celled organisms. Animal cells can only be found in multicellular org

True

Part B



On the diagram below, label the three main parts of a cell. Use the words in the list. cell membrane cytoplasm nucle



SUBTOTAL:

48

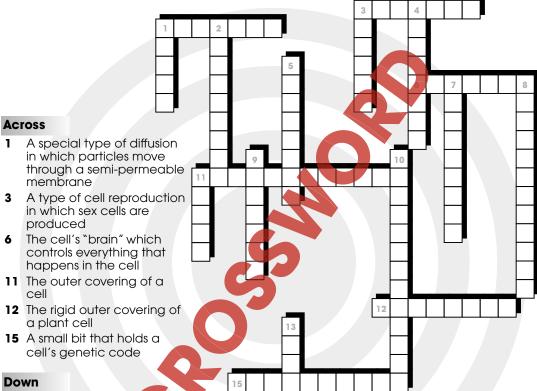


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Crossword Puzzle!

NAME:



Down

- Something that is made of different kinds of tissue working together
- 2 A small structure found inside a cell
- Anything that has mass and takes up
- A living thing, such as a plant or animal
- Large sacs in a plant cell that take up a lot of space
- Jelly-like substance that fills the inside
- Describes an organism that is made up of only one tiny cell

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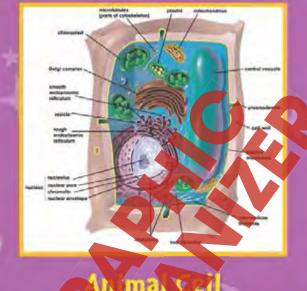
- Structure in a plant cell that makes or stores food
- 10 Describes something that allows some things through it, and not
- 11 "Paddles" that push the cells around and make them move
- 13 Type of cell reproduction in which one cell divides into two new, almost identical cells

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Plant & Animal Cells

.................

Plant Cell





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After You Read	After	You	Read	
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NAME: ___

What Is a Cell?

Answer the questions in complete sentences.

- **3.** What is a **cell**?
- **4.** Can you see a cell with just your eyes? What do you need to use in order to see a cell? Use terms from the reading passage in your answer.
- **5.** Do all cells look the same? How might cells be different from each other?

Extension and Application

6. Pretend you are a LEGO PIECE!

You are part of a construction that a child is building.

Describe what your job is as a Lego piece. In this activity, think of building blocks as part of the Lego building. In your response, be sure to answer these questions:

NGAN Who do you work with? How do you depend on others?

- How do others depend on you?
- What would happen if you (the Lego piece) did not exist?
- 7. How does a CELL PHONE work? Are cells only found in plants and animals? Did you know that the word "cell" in "cell phone" is a short form of the word "cellular"?

You are an electronic researcher. Your task is to prepare a report on how cell **phones** work. Pretend that the person who will read your report knows very little about what a cell is, or how a phone works. Use various research tools such as the Internet or an encyclopedia to find information on this topic. Use your imagination to present it in a creative way!

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Building block of life (smallest unit of living matter) 4. No - microscope 5. No - different shapes, sizes, jobs to do Answers will vary

7.

Answers will vary

