

Name: _____ Date: _____

Answer Key: Wait, Your Hand is a City? Kindergarten Cell Secrets

Can you design a tiny factory that builds a whole human? Advance from basic body parts to engineering the microscopic engines that power life.

1. If your body is a giant LEGO castle, what is the single LEGO brick called that makes up the whole thing?

Answer: B) A cell

Cells are the building blocks of life. Just like a castle is made of bricks, every living thing is made of tiny cells.

2. The center of the cell is like a 'Brain' that tells the rest of the cell what to do. This part is called the _____.

Answer: C) Nucleus

The nucleus acts as the control center, holding the instructions (DNA) that tell the cell how to grow and work.

3. A cell has a thin 'skin' called a membrane that decides who is allowed to come inside and who must stay out.

Answer: A) True

The cell membrane acts like a security guard, protecting the cell and controlling the movement of nutrients and waste.

4. Imagine a cell needs to run a race. Which part acts like a tiny battery to give the cell 'Go-Go' energy?

Answer: C) The mitochondria

Mitochondria are the powerhouses of the cell. They take in nutrients and turn them into energy for the cell to use.

5. When a cell gets too old or messy, it uses a part called a _____ to chop up trash and keep things clean.

Answer: A) Lysosome

Lysosomes contain enzymes that break down waste materials, acting like the cell's personal recycling and trash crew.

6. A single tree is made of millions of tiny cells, just like a human is.

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Answer: A) True

All living things—including plants, animals, and people—are made up of cells.

7. Inside the cell, there is a jelly-like liquid that holds everything in place so the parts don't bump into each other. What is it?

Answer: B) Cytoplasm

Cytoplasm is the thick, clear fluid that fills the cell and surrounds the organelles, keeping them safe.

8. Cells are like tiny chefs! They use _____ to build proteins, which are the 'muscles' the cell uses to grow.

Answer: C) Ribosomes

Ribosomes are responsible for making proteins, which are essential for building and repairing cell structures.

9. How do cells make more cells so that you can grow taller?

Answer: C) One cell splits into two cells

Cell division (reproduction) is how organisms grow. The nucleus directs the cell to copy itself and split in half.

10. The Golgi apparatus is like a post office because it packs up 'mail' (proteins) and sends them to the right place.

Answer: A) True

The Golgi apparatus modifies, sorts, and packages proteins for transport to their final destinations.