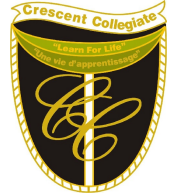


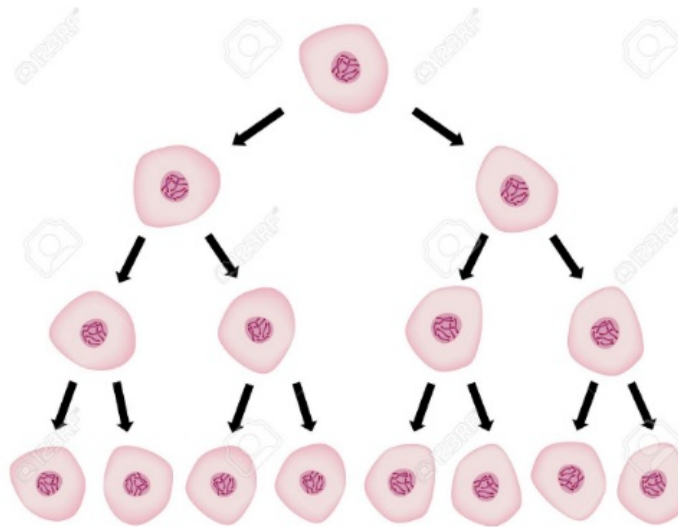
**Science 8**  
**Unit 4: Cells, Tissues, Organs and Systems**  
**Topic 4: The Growth Of New Cells**



**Student Name:** \_\_\_\_\_

All living things are made of cells. The human body has trillions of cells. How does it get so many?

**Mitosis** refers to the process by which body cells divide to produce more , identical cell.



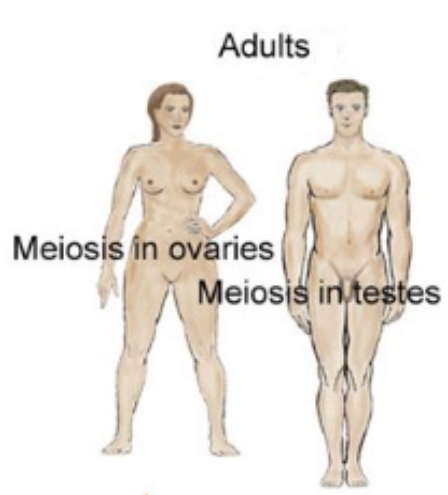
Many cells are created due to cell division. One cell divides to become two, two divides to become four, and so on

Mitosis can be used for:

- 1) Cell production for growth. For example, skin cells divide to produce more skin cells to heal a cut or injury
- 2) Cell production for reproduction. For example, bacteria cell divides to become two new cells.

**Meiosis** is a type of cell division that produces sex cells.

- Sperm is the male sex cell that is produced in the testes
- Egg is the female sex cell that is produced in the ovaries



Bill Nye The Science Guy Presents: Cells

1. All plants and animals in the world are made of \_\_\_\_\_ .
2. People have about \_\_\_\_\_ .
3. Cells are like bricks, but cells are \_\_\_\_\_ .
4. Alive or not: What are 2 examples of things that are alive? \_\_\_\_\_
5. What are 2 cell parts that both plants and animals have \_\_\_\_\_ ?
6. Instead of a wall, cells have a \_\_\_\_\_ (plants) or \_\_\_\_\_ a (animals).
7. \_\_\_\_\_ a power the cell.
8. Different cells are like different \_\_\_\_\_ of the house.
9. Yogurt and cheese are made of \_\_\_\_\_ cells.
10. \_\_\_\_\_ are like a roadmap for the cell.
11. During metamorphosis, all the cells get \_\_\_\_\_ .
12. \_\_\_\_\_ is your body's fastest growing organ.
13. There is no such thing as a \_\_\_\_\_ boy.
14. \_\_\_\_\_ tell your cells what to do.
15. Genes are made of \_\_\_\_\_ .
16. \_\_\_\_\_ are cells you can see without a microscope.
17. \_\_\_\_\_ are plant cells that are all dried out.
18. Hemoglobin in blood makes blood \_\_\_\_\_ in color.
19. Not all blood cells are red. Some cells are \_\_\_\_\_ .
20. We all start as \_\_\_\_\_ cell. We end up with \_\_\_\_\_ of cells.
21. \_\_\_\_\_ is the process of one cell becoming two cells