

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

## THE CELL: BASIC UNIT OF LIFE

1. Cells are made up of smaller units called \_\_\_\_\_.
2. Prokaryotic cells are found in the Kingdom \_\_\_\_\_ and lack a membrane bound \_\_\_\_\_.
3. The four remaining Kingdoms (animal, Plant, Fungi and protista) have \_\_\_\_\_ cells. The nucleus is enclosed by a \_\_\_\_\_.
4. The nucleus contains \_\_\_\_\_ that are found on the \_\_\_\_\_. They are made out of the nucleic acid \_\_\_\_\_.
5. TNA is found in the \_\_\_\_\_ of the nucleus where ribosomes are \_\_\_\_\_.
6. The outer border of the cell is called the \_\_\_\_\_. It allows certain substances to pass \_\_\_\_\_ and \_\_\_\_\_.
7. The cell membrane is made of a phospholipid bi-Olayer with hydrophilic and hydrophobic \_\_\_\_\_ and \_\_\_\_\_.
8. The region between the nuclear membrane and cell membrane is the \_\_\_\_\_.
9. Ribosomes are the sites of \_\_\_\_\_.
10. The rough endoplasmic reticulum is close to the nucleus and covered with attached \_\_\_\_\_.
11. Name one function of the smooth endoplasmic reticulum: \_\_\_\_\_
12. The packaging and shopping plant of the cell is the \_\_\_\_\_.
13. Lysosomes are responsible for breaking down unusable and old cell parts and are found only in \_\_\_\_\_ cells.
14. Vacuoles store \_\_\_\_\_, salts, \_\_\_\_\_ and carbohydrates.
15. Plant cells have larger or smaller vacuoles than animal cells? (circle one)
16. Plant \_\_\_\_\_ give the cell rigidity and support.
17. The mitochondria are the \_\_\_\_\_ of the cell and are responsible for producing \_\_\_\_\_.

18. What is the function of the cristae in the mitochondria? \_\_\_\_\_

\_\_\_\_\_

19. \_\_\_\_\_ in plant cells are the site of the important process of photosynthesis. \_\_\_\_\_ give the plant its green color.

20. The two types of webbing in the cytoplasm are \_\_\_\_\_

and \_\_\_\_\_. They are the basic components of the

\_\_\_\_\_.