**Study Guide- Organelles**  Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ has nasty acids- kills off bad cell parts.

\*\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_ have lots of these

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ gooey gel-like fluid inside cells

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ largest central part of the cell

\* contains the genes (DNA)

4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ where all the energy is created

\*muscle cells have lots of these

5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ these create all the body’s proteins

6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ These store and ship the cell’s proteins

7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the soupy DNA material in the nucleus

8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ this is where the ribosomes are made

9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the set of tubes where materials are transported

10. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ separates the nucleus from the rest of the cell

11. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ largest central sac- stores water in plants

12.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ outer layer of the cell

13. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ rigid outer layer in the plant cell only!

14. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (in lung cells) are hair like structures-used for

movement (animal cells)

15. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (sperm cells) are tail-like structures- used for

Movement

16. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ structural supports for the cell

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

17. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ contain chlorophyll in plants

18. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ control where the microfilaments and microtubules grow

19. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ holes in the cell wall that allow material to pass through

**Two Types of Cells**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cells that do not have a nucleus ( bacteria )
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cells that do have a nucleus

**History**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ saw the 1st cells: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ saw the 1st living cells
3. Name the 3 Parts of the Cells Theory

\*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Describe each microscope.

\* Simple- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (magnifiying glass)

\* Compound- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\* Electron-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Object must be dead.

1. White blood cells depend on their \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to be useful
2. The two parts of a plant cell that control its being turgid or flaccid are:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are needed to make proteins in the cells
2. Any time you hear the word ENERGY- the cell organelle you should think of is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_