

## Science Chapter 1, Lesson 2 Outline pgs. 9-11

### VII. What is the nucleus?

- a. the nucleus is \_\_\_\_\_.
- b. surrounded by a \_\_\_\_\_.
- c. substances can \_\_\_\_\_.
- d. also contains \_\_\_\_\_.
- e. nucleolus makes \_\_\_\_\_.
- f. is the control \_\_\_\_\_.
- g. the DNA has \_\_\_\_\_.
- h. long chains of DNA \_\_\_\_\_.
- i. chromosomes have \_\_\_\_\_.
- j. human cells have 23 \_\_\_\_\_.
- k. each organism has a particular number of \_\_\_\_\_.

### VIII. Where are protein and lipids manufactured?

- a. protein molecules are built \_\_\_\_\_.
- b. ribosomes do not \_\_\_\_\_.
- c. are made in \_\_\_\_\_.
- d. can attach to \_\_\_\_\_.
- e. folded membrane \_\_\_\_\_.
- f. Rough ER makes and \_\_\_\_\_.
- g. Smooth ER is important for \_\_\_\_\_.

### IX. How do cells process energy?

- a. most plants \_\_\_\_\_.
- b. chloroplast uses light \_\_\_\_\_.
- c. uses light energy, water, and \_\_\_\_\_.

- d. all animals must get their food from \_\_\_\_\_.
- e. an organelle called mitochondrion \_\_\_\_\_.
- f. mitochondria are sometimes called \_\_\_\_\_.
- g. cells that require a lot of energy \_\_\_\_\_.

X. Which is the job of the Golgi apparatus?

- a. the Golgi apparatus is an organelle \_\_\_\_\_.
- b. also modifies \_\_\_\_\_.
- c. Golgi apparatus needs to transport a molecule it \_\_\_\_\_
- d. a vesicle is made of \_\_\_\_\_
- e. Vesicles also carry substances \_\_\_\_\_
- f. Vacuoles are \_\_\_\_\_
- g. an animal cell contains \_\_\_\_\_
- h. a lysosome stores \_\_\_\_\_

XI. Cell Types

- a. a cell without a nucleus and other organelle is classified as \_\_\_\_\_
- b. a cell with a nucleus \_\_\_\_\_

XII. What is another name for prokaryotes?

- a. prokaryotic cells are \_\_\_\_\_
- b. prokaryotes are also known as \_\_\_\_\_

XIII. What are eukaryotic cells?

- a. eukaryotic cells are \_\_\_\_\_
- b. they also \_\_\_\_\_