

## Cell Organelle Worksheet

Name \_\_\_\_\_

1. In what organelle does cellular respiration take place?
2. Name two storage organelles?
3. What is the list of organelles that take part in protein synthesis?
4. How is the nucleus involved in protein synthesis?
5. What organelle is considered a “factory”, because it takes in raw materials and converts them to cell products that can be used by the cell?
6. How does the membrane of the cell differ from the nuclear membrane? What advantages does this difference have for the nucleus?
7. What do ribosomes do? Are they found freely floating in the cytoplasm? OR are they found attached to another organelle? OR both. Explain why this occurs.
8. What does the endoplasmic reticulum do?
9. What is the difference between rough ER and smooth ER? What is the ER doing that is different in each case?
10. What are lysosomes? What types of molecules would be found inside a lysosome?
11. Why might a lysosome fuse with or link up with a food vacuole?
12. In what organelle do molecules move from the ER to the Golgi bodies?
13. What is meant by “membrane turnover”? THINK
14. What is a centriole? In what type of cell (plant or animal) is it found? What does it do for the cell?
15. What is the difference between chromosomes and chromatin? What do they each have to do with DNA?
16. What are microtubules? How do they differ from microfilaments? Name two molecules that are considered microfilaments?
17. What is a flagella? How does it differ in size and number from cilia? What is the function of each of these organelles?