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Topic: Cells Organelles Worksheet - Animals

Summary: Students review the functions and processes of the different eukaryotic cell organelles.

Goals & Objectives: Students will be able to define the functions and processes of the different eukaryotic cell organelles.

Time Length: 30 minutes

NGSS Standards: *MS-LS1-2.* Use a model to illustrate the role of cellular division (mitosis) and differentiation in producing and maintaining complex organisms.

Materials:

Class notes or textbook or online textbook

- <https://flexbooks.ck12.org/cbook/ck-12-biology-flexbook-2.0/section/2.8/primary/lesson/other-cell-organelles-bio/>

Prerequisite Knowledge: Students have already been taught the functions of the different cell organelles.

Procedures:

1. Give the students their lecture notes.
2. Tell the students which section they are to use in the textbook. Students are then going to read the section and answer the questions on the worksheet using their notes and the textbook.

Accommodations: Students with an IEP can take the handout home if they need extra time.

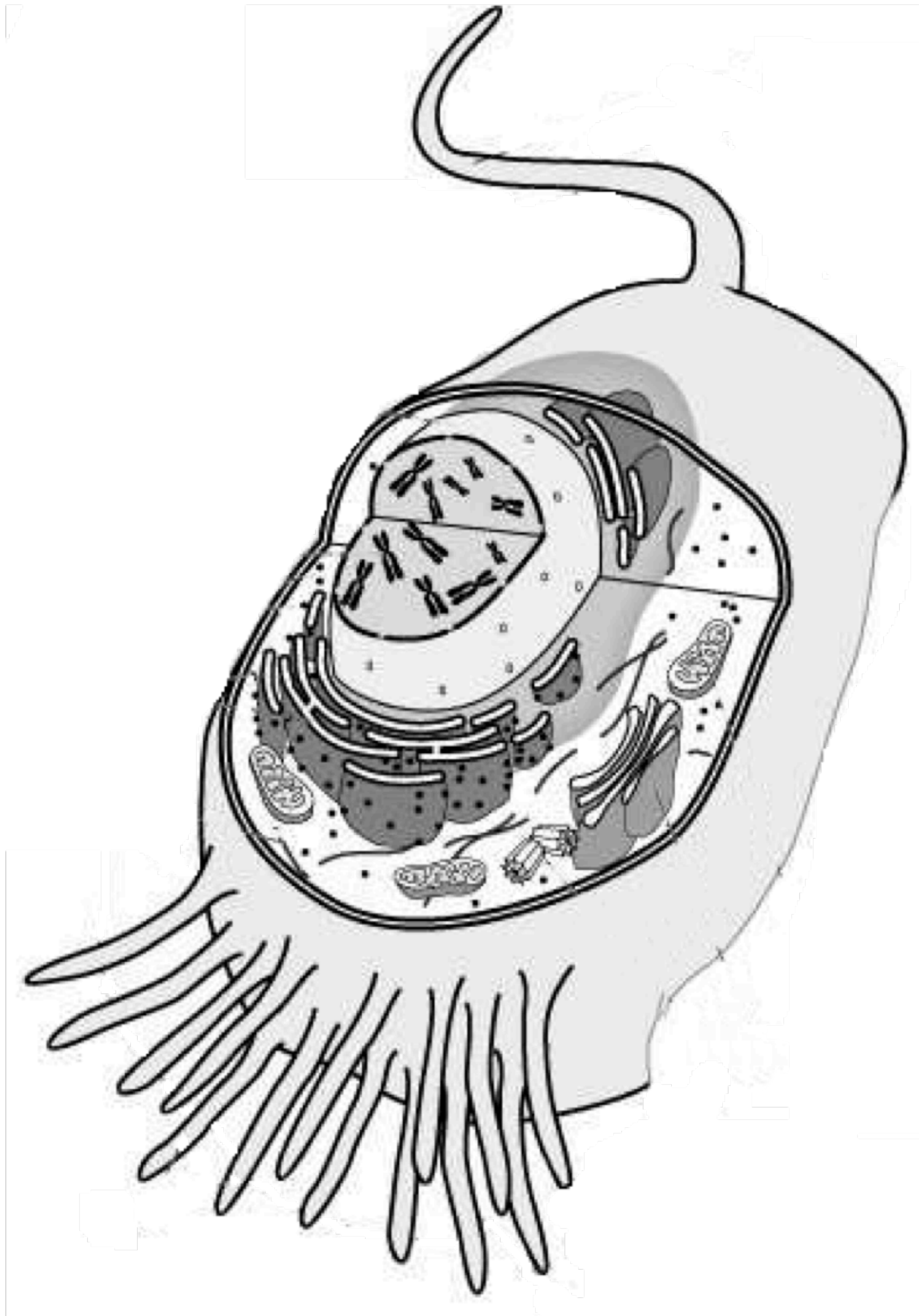
Editable DOCX File and Answer Key:

Available at www.ngsslifescience.com

Cell Organelles Worksheet - Animals

Fill in the blanks with answers that best completes the statement.

1. What is an organelle? _____
2. What organelle controls most the cell's functions? _____
3. Most of the DNA in a cell can be found in the _____.
4. Below is a model of a eukaryotic cell. Draw lines and label the nucleus, rough endoplasmic reticulum, smooth endoplasmic reticulum, free ribosome, bounded ribosome, Golgi body and mitochondria.



5. What are the two main functions of the rough endoplasmic reticulum?

6. What makes the rough endoplasmic reticulum rough? _____
7. What organelle synthesizes proteins? _____
8. What functions does smooth endoplasmic reticulum perform? _____

9. What type of ribosome makes proteins that are usually secreted out of the cell? _____
10. What type of ribosome makes proteins that are only used inside the cell? _____
11. What does secretion mean? _____
12. Write the organelles involved in protein secretion in order from start to finish.
1 _____ 2 _____ 3 _____ 4 exocytosis
13. What are the two main functions of the Golgi apparatus?

14. What is a vesicle? _____
15. What organelle converts chemical energy into ATP? _____
16. What process does the mitochondrion perform? _____
17. Which cell organelle is the site of cellular respiration? _____
18. Which cell organelle synthesizes phospholipids and steroids, detoxifies poisons and lacks attached ribosomes? _____
19. Which organelle has most of the genes that control the cell? _____
20. Which cell structure is semi-permeable and forms the boundary of the cell?

21. Which organelle receives transport vesicles from the ER and produces lysosomes and secretory vesicles? _____
22. Which organelle is the site of protein synthesis and is attached to the outside surface of the endoplasmic reticulum?

23. Which organelle moves proteins around the cell with transport vesicles and has attached ribosomes? _____