

Virtual Lab – What is the internal structure of cells? Do plants and animals have the same cellular structures? What are the functions of the parts within cells?

Directions:

- Go to our class website. Under Unit 4 Materials, click on the link for "Cell Structure Virtual Lab". Use the following information to log-in:
Username – npascience2017 Password – heron
- Click on "Launch Gizmo"
- Follow the prompts below and complete all work in your notebook. You do not have to write the questions, just the letter/number. You must answer in complete sentences for credit.

Vocabulary: cell membrane, cell wall, centriole, chloroplast, cytoplasm, endoplasmic reticulum, Golgi apparatus, lysosome, mitochondria, nuclear membrane, nucleolus, nucleus, organelle, plastid, ribosome, vacuole, vesicle

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. What are some of the structures inside a cell that help it to live and perform its role in an organism? What do these structures do?
2. How do you think plant cells differ from animal cells? (Hint: What can plants do that animals cannot?)

Gizmo Warm-up

The *Cell Structure Gizmo™* allows you to look at typical animal and plant cells under a microscope. On the **ANIMAL CELL** tab, click **Sample** to take a sample of an animal cell. Use the **Zoom** slider to see the cell at a magnification of 2000x (2000 times larger than normal). On the dropdown menu, select **Centrioles**.

1. Use the up/down and left/right sliders to manipulate the cell. Find the red arrow pointing to the **centrioles**. Make a sketch of the centrioles in the space below.
2. Read the description of the centrioles. What is their function?



Cell Structure Exploration Guide Answers

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