Name _____

Cells Alive- Internet Lesson

URL: www.cellsalive.com

Objective: You will look at computer models of cells; learn the functions and the descriptions of the cells and their components.

Navigating the site: Cells Alive has a navigation bar at the left. After accessing the page, click on CELL BIOLOGY on the left side navigation bar. From here, you will access the links: "How Big", the animal cell model, the plant cell model, and the bacterial cell model.

Part A. "HOW BIG"

Here you will look at objects found on the head of a pin. Your job is to rank them in order of size on the chart. The line in the bottom right corner of the screen is used to help you estimate.

Rank Size (1 for smallest, 8 for largest) ⟶

QUESTIONS – For each, determine what units of measurement you would use:

1. A virus: (nanometers | micrometers | millimeters) - circle
2. A red blood cell: (nanometers | micrometers | millimeters)
3. An E. Coli bacteria: (nanometers | micrometers | millimeters)
4. The length of a strand of hair: (centimeters | micrometers | millimeters) - circle
   The width of a strand of hair: (centimeters | micrometers | millimeters) - circle

Object	Rank Size
Red Blood Cells	
Rhinovirus	
Human hair	
Ebola virus	
Staphylococcus	
E. coli	
Dust Mite	
Ragweed	

Part B: Bacterial Cell Model - (you will need to go to the "cell models" link and find the prokaryote or bacteria cell). Label the drawing.