



Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

**Scale Exploration Activity**

**8/24/2018**

This is silly, but go with it. How many meters long is a coffee bean in its longest dimension?

4. What is the largest cell you can find? How big is it? Convert this measurement into mm.

5. How much larger is a HUMAN EGG than a HUMAN SKIN CELL?

6. What is the smallest cell you can find? Compare the size of this cell with the cell you found in #4.

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7. List 3 different viruses and their sizes. What is the most appropriate unit of measurement for a virus? How much smaller than a meter is this size unit?

8. Make a table of molecules and their respective sizes.

9. If a red blood cell is 8 micrometers in diameter, theoretically how many haemoglobin molecules can fit inside of it?

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10. Measure the distance between the 2 blue tapes on the floor in the lab. What is the best unit of measurement for this distance?

Now imagine that this is a model of a blue whale. How much SMALLER than an actual blue whale is this measurement, in the longest dimension?

How much LARGER than a human sperm cell is this measurement in the longest dimension?