**Scale of the Universe**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Block\_\_\_\_\_\_\_\_\_

When we say that an atom is small, how small is small? Check out the interactive video “Scale of the Universe” <http://htwins.net/scale2/> to explore the sizes of things large and small found in the universe. Use the scroll bar at the bottom of the screen to control the size of the objects – you can zoom in and out. When you first open the video it starts with objects the size of about 1 m, which is equal to 100 m when expressed as a power of 10 – look at the bottom right of the screen to see the power of 10. You can click on any object to get information about that object.

Answer in complete sentences.

1. List 2 things that are about 1 m (100 m). (hint: click on the object to get its size)

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2. What is the diameter of a proton?

(hint: scroll the bar to the left to get smaller; click on the proton to get more info)

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3. What is the height of a giraffe? (hint: scroll the bar to the right to get bigger; click on the giraffe to get more info)

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4. Pick 2 things that you found interesting. Describe what they are and be sure to include their size.

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