

Biologist Journal #2: Thinking Like a Biologist in Size and Scale

Due on iLearn: by MIDNIGHT Sunday, 1/31/16!



Part I:

- Revisit your **Biology Size and Scale Strip Set** that you worked in class on with a partner. **Do the exercise again by yourself**, putting the strips in order from the **LARGEST** to the **SMALLEST**.
- Write out a list of **YOUR** predicted order of the strips from **LARGEST** to **SMALLEST** in this homework file.
- Write a paragraph (≥ 200 words) about:
 - what strategies you used to arrive at this prediction,
 - which items you are **most sure about** their relative size, and
 - which items you are **least sure about** their relative size.

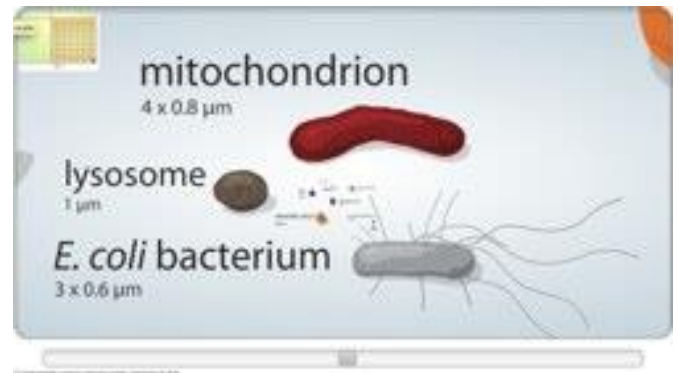
Part II:

ONLY AFTER COMPLETING PART I (on your honor!), explore this website: <http://learn.genetics.utah.edu/content/begin/cells/scale/>

1. As you move the scale bar and zoom in, think about how you would need to **REVISE YOUR PREDICTED LIST** of items from **LARGEST** to **SMALLEST**!

2. Also, think about **WHAT EACH OF THESE BIOLOGICAL ITEMS ARE MADE UP OF**...Think about which of the items are:

- ...collections of cells?
- ...single cells?
- ...only collections of molecules?
- ...only single molecules?



Part III:

Write another paragraph (≥ 200 words) about:

- what did you learn from the website that **SURPRISED** you the most,
- what did you learn that **CONFUSED** you the most, and
- what new strategies might you use if you were asked to predict the relative size of a new set of biological items.