**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**IB Biology HL: Functions of Life in Unicellular Organisms and Emergent Properties in Multicellular Organisms**

Examine prepared slides of the following unicellular organisms: *Paramecium* and *Chlamydomonas*. Draw and label a diagram of each of the organisms. Include a scale bar.

Use the following links to read about and watch video clips of live organisms. Annotate your diagram to describe how it performs the functions of life.

<http://101science.com/paramecium.htm>

<http://www.biology-resources.com/chlamydomonas-01.html>

<http://ibguides.com/biology-2016/notes/unicellular-organisms->

<https://www.youtube.com/watch?v=qrD2ZKQR2XM>

***Paramecium*:**

***Chlamydomonas*:**

Examine prepared slides of *Volvox*, a unicellular organism that lives in colonies. Draw and label a diagram of a colony. Include a scale bar.

Use the following links to read about and watch video clips of *Volvox* species. Describe the behavior of *Volvox* in colonies.

<https://www.youtube.com/watch?v=w8O4OolGcPg>

<http://www.microscopy-uk.org.uk/mag/indexmag.html?http://www.microscopy-uk.org.uk/mag/artdec03/volvox.html>

<http://www.britannica.com/EBchecked/topic/632669/Volvox>

***Volvox:***

Read and watch the video on *Caenorhabditis elegans.* Summarize the characteristics of this organism. Include information on why scientists study it.

<https://www.cbs.umn.edu/research/resources/cgc/what-c-elegans>

<https://www.youtube.com/watch?v=zjqLwPgLnV0>

***Caenorhabditis elegans:***