**Unit 3 Microorganisms Study Guide**

**Standard(s)/Element(s)**

 S5L4. Obtain, evaluate, and communicate information about how microorganisms benefit or harm larger organisms. (Clarification statement: Possible microorganisms could include Tardigrades, Lactobacillus, Probiotics, Rotifers, Salmonella, Clostridium botulinum (Botox),

E-coli, Algae, etc. Students are not expected to know these specific microorganisms. The list is provided to give teachers examples.)

a. Construct an argument using scientific evidence to support a claim that some microorganisms are beneficial.

b. Construct an argument using scientific evidence to support a claim that some microorganisms are harmful.

**Key Topics**

* Microorganisms are living organisms that are too small to view without a microscope.
* There are helpful and harmful microorganisms.
* Bacteria is a common microorganism. Explain how to treat/prevent bacteria type illnesses.
* Some specific microorganisms can be both helpful and harmful like algae! Explain how algae is both helpful and harmful to the environment.
* Red Tides
* Germs- Where are they? How do they spread?
* What is Yeast? What is it used for? How is it a part of our everyday life?