**Unit 8: Immunity and Microorganisms Enrichment**

Enrichment 1: Immunoassay

View the prezi at <http://prezi.com/nryn6vr4lcz8/?utm_campaign=share&utm_medium=copy&rc=ex0share> and use it to answer the following questions:

1. Define and give examples of Antigens.
2. What are the 2 categories of antigens?
3. Do you produce antibodies against environmental toxins? Why or why not?
4. What does immunoassay testing do?
5. Describe the process of reversing an immunoassay test to test soil for toxins.
6. What is another use of immunoassay testing?

Enrichment 2: Treating Microbial Infections

View the prezi at <http://prezi.com/wwtwm-zxg96n/?utm_campaign=share&utm_medium=copy&rc=ex0share> and use it to answer the following questions:

1. Define antimicrobial infections.
2. List and describe the 3 categories of antimicrobials and how they work. Give examples of each.
3. For the antimicrobials in #2, describe what kinds of infections each treats.

Enrichment 3: Two Types of Bacteria

View the prezi at <https://animoto.com/play/fq1PbKFksTdXMDfZkr4fMg> and use the information to answer the following:

1. What’s the difference between gram-positive and gram-negative bacteria? Include in your answer gram stain, number of membrane layers, and peptidoglycan.
2. What is peptidoglycan?
3. Why would you rather have a gram-positive infection than a gram-negative one?
4. Why is it more common to pick up gram-negative infections, like MRSA, in hospitals?
5. Why do you think that gram-negative urinary tract infections are becoming more common?