

Name: _____

Lesson: How Dirty Is Your School – Part II

Objectives: 1) To determine the growth of bacteria from different sources.
2) To draw samples of bacterial structure found on specific areas.

I. Investigating the presence or absence of bacteria. Check on the plate and complete the table below.

Source	Occurrence (+) Presence and (-) absence	Abundance (none, few, numerous)	Degree of human contact (seldom, frequently, always)

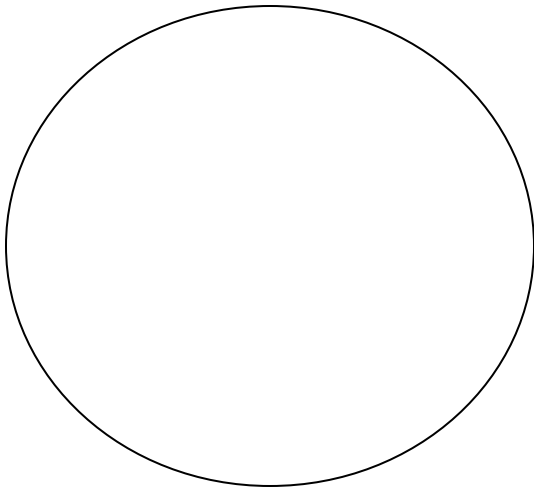
II. Bacterial Structure

A. Materials: microscope, slides, cover slips and toothpicks or rods

B. Directions:

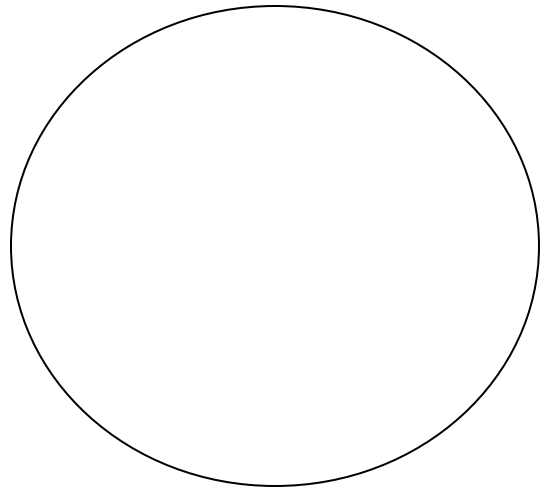
1. Remove the sterile rod from the wrapper and open up your plate with the bacteria. Gently poke the bacterial colonies with the sterile rod.
2. Carefully rub the tip of the rod with the bacteria onto the top of the microscope slide. Put a drop of water over the spot where you put the bacteria. Place the cover slip over the spot of water.
3. Use the microscope to look at the bacteria by starting with the lowest objective (the Red Objective 10X). Use the coarse grain focus (the large knob) to put the bacteria into focus. Once you can see the bacteria, start to use the fine grain focus (the smaller knob). You can then move to a higher objective to get a closer look.
4. Draw some samples of the bacteria found on each source.

C. Drawings:



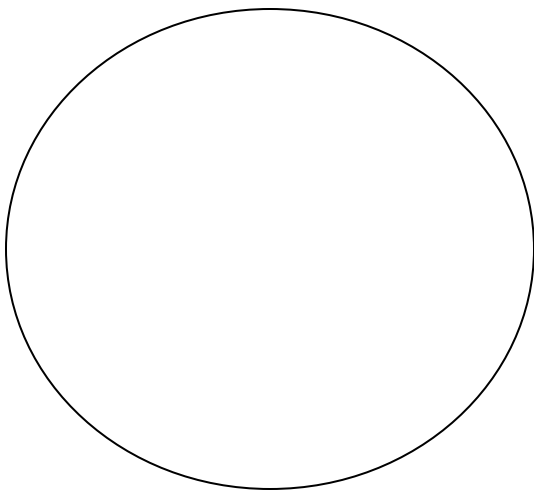
_____ X - HPO

1. _____



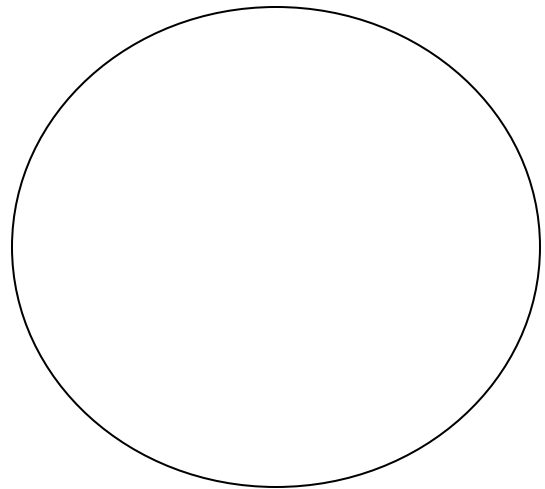
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2. _____



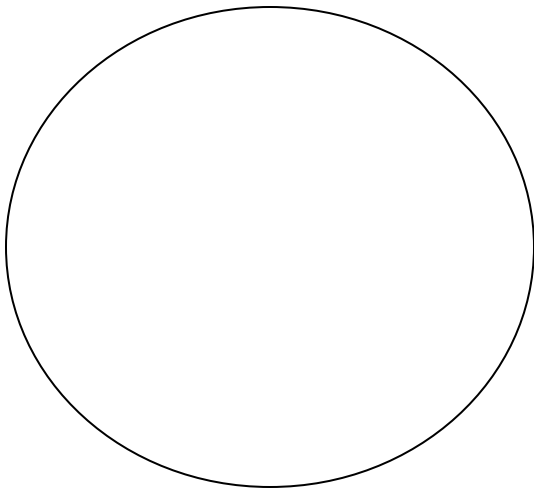
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3. _____



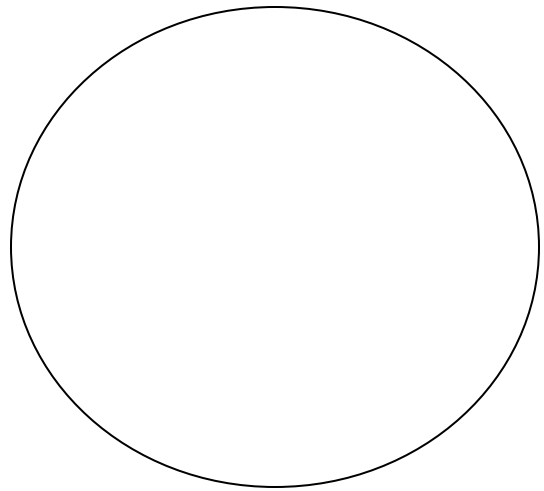
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4. _____



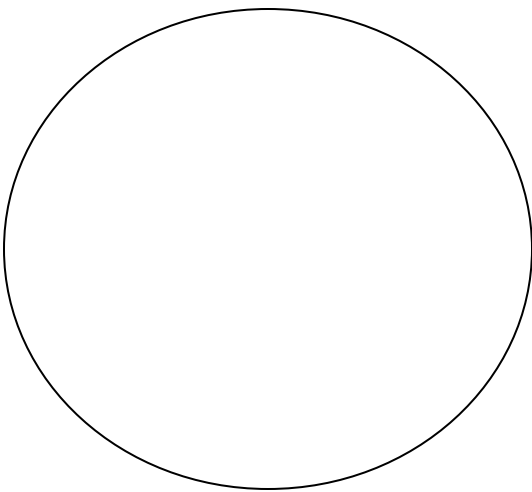
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5. _____



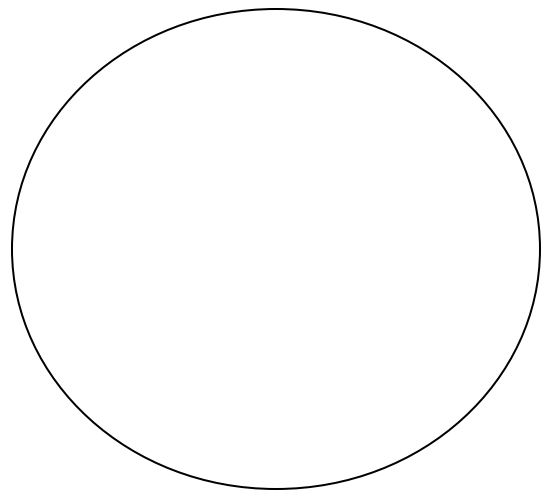
_____ X - HPO

6. _____



_____ X - HPO

7. _____



_____ X - HPO

8. _____