Bacterial Culture continued in you lab notebook!

How small is a bacterium?-- sometime during class

1. View the blood cells under the pe-set microscope. Note the magnification.

Medium and High.

1. View the bacteria cells using the viewfinder. Note the magnifications.
2. Record any observations that you notice about size, shape, contents, etc.

Plates

1. Observe your plates that were streaked Friday. In your lab notebook make observations about the plates. These could be written observations or you could sketch the plates. Label each set of observations.
2. The goal was to obtain a bacterial culture, specifically single colonies of bacteria. Were you successful?

Bacterial Conjugation

1. What makes a F(+) bacteria different from a F (-) bacteria?
2. What conditions are necessary to have significant number of plasmid transfers?
3. True/False the F plasmid contains genes to produce a pilus.
4. Why is conjugation important for bacterial evolution and survival?
5. How are the two types of conjugation different?

Bacterial Transduction

1. What is the major difference between transduction and the other methods of gene transfer in bacteria?
2. In general transduction, the diagram shows a virus with bacterial DNA infecting a second bacterium (#5). What would happen if a virus with viral DNA infected that bacterium instead?
3. Is it possible to transfer an entire bacterial genome into another bacterial cell via transduction?

Coloring- the last one for a while!

You pick ONE of the diagrams to color. Conjugation OR Transduction. Turn in the coloring on my desk.