

Name: \_\_\_\_\_

Class: \_\_\_\_\_

## Microbial Reproduction: Microbial Growth

**Objectives:** Following this activity students will be able to: (1) describe the process of microbial growth and (2) explain the factors that influence growth.

**Background:** Microbial reproduction is the process by which a microorganism produces more of its kind. This can be done in two ways: asexual and sexual reproduction.

**Microbial Growth Curves:** The graph below shows the typical growth curve of a microorganism.

**1. Lag phase:** This is the period of time when the microorganism is adjusting to its new environment. It is the period of time when the microorganism is not yet dividing.

**2. Log phase:** This is the period of time when the microorganism is dividing rapidly. It is the period of time when the microorganism is in its most active state.

How long is the lag phase? (The lag phase is the period of time when the microorganism is not yet dividing.)

**3. Stationary phase:** This is the period of time when the microorganism is not dividing. It is the period of time when the microorganism is in its least active state.

How long is the stationary phase? (The stationary phase is the period of time when the microorganism is not dividing.)

**Microbial Growth:**

Microbial growth is the increase in the number of microorganisms in a population. It is the process by which a microorganism reproduces and its offspring survive.

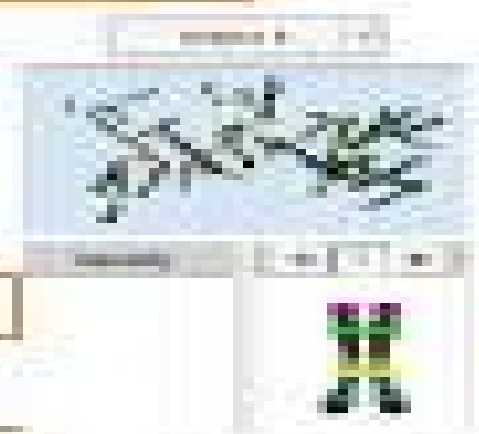
In this activity, you will be studying the growth of a microorganism. You will be using a graph to show the growth of the microorganism over time. The graph will show the number of microorganisms in the population at different times.

**1. Lag phase:** This is the period of time when the microorganism is not yet dividing. It is the period of time when the microorganism is in its least active state.

How long is the lag phase? (The lag phase is the period of time when the microorganism is not yet dividing.)

**2. Log phase:** This is the period of time when the microorganism is dividing rapidly. It is the period of time when the microorganism is in its most active state.

How long is the log phase? (The log phase is the period of time when the microorganism is dividing rapidly.)



# Gizmo Student Exploration Human Karyotyping Answers

**Julia Schneider**



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