

# BIOLOGY BOOT CAMP 12

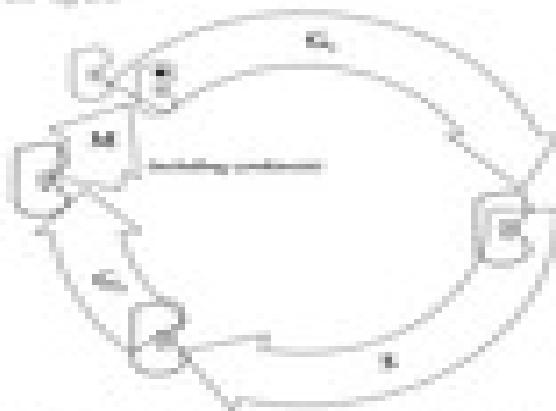
## The Cell Cycle

What controls the life and development of a cell?

### Why?

Are all parts of growing trees the exact same? Is there a tree in the forest a tree in the city? The cells, the leaves might say "I like to drink and to live in green." In multicellular organisms different types of cells have different roles and need for complete specific tasks. For example, a cell that isn't large enough is not useful for moving resources like water. On the other hand if a cell that is too large will not be useful for transportation. Through a few questions to this section you will learn about the process of a cell's life, and we will discuss different cell division processes.

### Model 1 – The Cell Cycle



1. How many phases are in the cell cycle as shown in the diagram in Model 1?
2. Starting at the second cell, what is the order of the stages of a cell's life?
3. During which phase does the size of the cell increase?
4. During which phase does the number of cells decrease?