I CAN explain and describe how animal & plant cells produce more cells.

Name	
Period	Date
75-	Cell Cycle NOTES

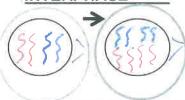
CELL CYCLE occurs in SIX steps.

1st Step: (first stage)

The cell **RESTS** and **GROWS**.

Chromosomes & organelles are **COPIED** (# doubles)

INTERPHASE



This ends this first stage of the cycle.

MITOSIS (second stage)

2nd step (1st phase).

MITOSIS begins



PROPHASE

The **NUCLEAR** membrane dissolves.

CHROMOSOMES condense—shorten and thicken.

FIBERS attach at the centromere.



3rd step (2nd phase).

METAPHASE

CHROMOSOMES line up on the equator.

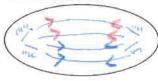
Sister chromatids



4th step (3rd phase)

Chromosomes **SEPARATE** and are pulled to opposite sides of the cell by the spindle fibers.

ANAPHASE



pinching inward

Sister chromatids split



5th step (4th phase)

The nuclear membrane forms around the 2 sets of chromosomes forming two new NUCLEI

Chromosomes unwind, the spindle fibers disappear.

MITOSIS ends

6th step (third stage)

The <u>CYTOPLASM</u> splits in two.

CYTOKINESIS

The cell membrane moves inward to create two separate identical cells. These cells two new cells are called daughter cells.

