Cell Reproduction A Virtual Lab	Name	Period
Cell Reproduction A Virtual Lab Science Home > Life > Rutgers Virtual Labs > Cell Reproduction Onion Root Tip Cells A Microscopic Photo Use Rutgers Virtual Cell Reproduction Lab to label the selected cells.	http://bio.rutgers.edu/~gb101/virtuallabs_101	PRI GIPTIGIPEI
MITOSIS refers to <u>Cell Division</u> or <u>Cell Repdivision</u> by MITOSIS produces two new " <u>daughte</u> the old cell is a human cell the new cells will be hand chromatin of the nucleus changes into CHROMOS in DNA that determines the type of organism that	<u>r cells</u> " that are a copy of the old cell. Tho cells. Onion cells will be o c SOMES. CHROMOSOMES have the geneti	at means if ells. The

MITOSIS takes place in EUKARYOTES meaning cells that have nuclei (nuclei is plural for nu_____).

KARYOTE (meaning before-nu _ _ _). PROKARYOTES have been found in fossil records to show that they were on Earth <u>before</u> EU-KARYOTES (new cells-with nuc _ _ _). From this scientists have used <u>fossil evidence</u> to show that our cells and other EUKARYOTES (w _ _ _ nuclei) were developed (or

Cell Division is also called Cell Multiplication and Cytokinesis. Cell Multiplication because the number of

cells is multiplied by two. Cytokinesis because cyto- means cell and -kinesis means movement.

So, cells m____ when they d____.

Some cells such as bacteria cells do not have <u>nuclei</u>. A cell that does not have a <u>nucleus</u> is a PRO-

evolved) from PROKARYOTES. The term -karyote means having a kernel or center.

(Remember: Kinetic energy is energy of mo _ _ _ _ _ _)

	Reproduction		Name	Period
Re	ferences: Prentic	e Hall Life Science.	pages 72-77 and R	utgers Virtual Lab.

The Cell Cycle of Mitosis (Cell Reproduction).

Below are microscopic images of animal cells that are in different stages of MITOSIS. When new cells are produced, those new cells then go on to produce more new ce___. The LIFE SPAN of a cell is the time from formation of the cell to the next MITOSIS or cell division. Multicellular organisms have a lifespan of how long the cells live and work together to be a living organism. Each of our cells also has it own life span. Flakes of skin are dead skin cells. More cells are constantly being formed by MITOSIS.

- __1. Review Prentice Hall Life Science (PHLS), pages 72-77. Open to the Mitosis cycle.
- __2. Start with plain white paper and a circle (use a circle machine) to represent a cycle. Draw clockwise direction arrows on your circle. Label with the TITLE and your Name.
- __3. Cut out the below cell images. Use FLAPS OF TAPE to place them order on (or by) your circle to show a CELL CYCLE. Try to use at least 10 images. More images = more points.
- __4. Cut out and then use FLAPS OF TAPE to add the TITLE and the LABELS for at least one of each of these five (5) stages of MITOSIS:
 - _5. Use a pencil to add a SHORT DESCRIPTION of each stage. (Use your text for reference.)

Interphase

Prophase

Metaphase

Anaphase

Telophase/Cytokinesis

Cell Reproduction/Mitosis Cycle by

Per

