

WEB EXPLORATION: MITOSIS

Go to:

<https://biomanbio.com/HTML5GamesandLabs/Genegames/mitosismoverpage.html>

Or

Google- bioman biology Mitosis Movers

Mitosis Mover! A Cell Cycle Interactive

In order to make new body cells, the cell cycle must occur. During the cell cycle, one cell divides into two _____ cells with exactly the same DNA.

The cell cycle includes 3 parts:

- _____
- _____
- _____

Interphase

Interphase happens before mitosis begins. Before interphase, the normal functions take place within the cell, like making _____. In the nucleus of the cell, the two stringy, uncoiled DNA is called _____. Each piece of chromatin is a DNA molecule. Each human cell, for example, has _____ pieces of chromatin. The DNA must copy itself, or _____.

Mitosis

Mitosis is important for making more cells for _____, _____, and _____. The results of Mitosis are two _____ identical daughter cells. There are 4 phases to _____.

They are: _____, _____, _____, and _____.

Prophase

During prophase, chromosomes _____ and become visible. Each chromosome has _____ halves called sister _____. Each sister chromatid of a chromosome is _____. The chromosomes remain in the nucleus and it _____ after prophase.

Metaphase

In metaphase, the chromosomes _____ single file down the _____ of the cell.

Name _____ Period _____ Date _____

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Anaphase

During anaphase, the sister chromatids _____ and move to the _____ poles.

Telophase

In telophase, two _____ cells are being formed. Each of the newly forming cells makes a _____. During telophase, the chromosomes _____ to make chromatin again.

Cytokinesis

_____ also occurs at the same time as telophase.

_____ is the division of a cell at the end of mitosis into two daughter cells.

Put the mitosis and cytokinesis images in the correct order. Draw the images below.

Repeat the activity until you make an “A” on the quiz. Take a screen shot and insert here.