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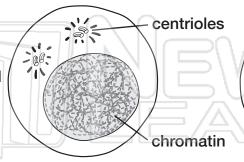
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The Cell Cycle

The cell cycle is the sequence of stages of growth and division that a cell undergoes. The three stages of the cell cycle include interphase, mitosis and cytokinesis.

Interphase – first stage of the cell cycle and the period before cell division. The cell matures, copies its DNA and prepares to divide.



Prophase - chromatin condenses and spindle fibers form at each side of the cell.

chromosomes

The Cell Cycle



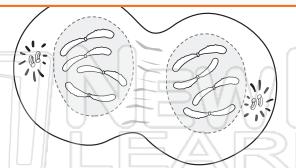
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Cytok memb the mi

dividing it into two daughter cells. Each daughter cell gets half of the cell organelles and an identical set of chromosomes.



Telophase – chromosomes loosen and nuclear membrane begins to form around the chromatin.



Anaphase - chromatids move to opposite sides of the cell.

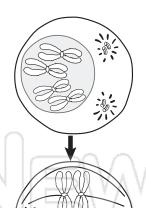




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Meiosis

During meiosis a parent cell divides into four sex cells, each with half the number of chromosomes. Sex cells of males are called sperm cells and sex cells of females are called egg cells.



Before meiosis begins, chromosomes in the parent cell are copied.

Meiosis I

Chromosome pairs line up in the middle of the cell.



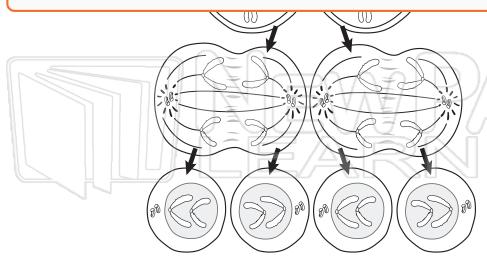
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up



Centromeres split and single chromosomes move apart to opposite ends of the cell.

4 sex cells are produced, each with one chromosome from each original pair.





Nar	ne Date
	y explain what happens in a cell during the cell cycle and each of mitosis. Draw a picture to illustrate.
Inte	rphase:
	THE PATH
Prop	phase:
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Telo	phase & Cytokinesis: EARNIG





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Use the graphic organizer to compare and contrast Mitosis and Meiosis.

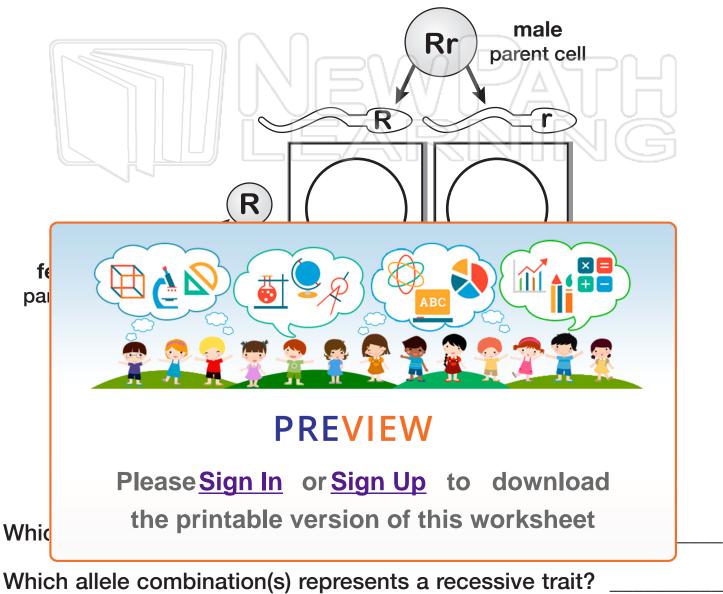






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Name	Class	Date

A Punnett Square shows all the possible allele (gene) combinations in the offspring of two organisms. Complete the square below.



What percentage of offspring will show a dominant trait?

What percentage of offspring will show a recessive trait?



Answer Key - example

Briefly **explain** what happens in a cell during the cell cycle and each stage of mitosis. **Draw** a picture to illustrate.

Interphase: Period before cell

division. The cell matures, copies

its DNA and prepares to divide.



Prophase: Chromatin

condenses and spindle fibers

form



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cell.

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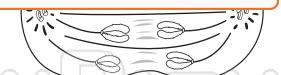
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apart by spindle fibers.

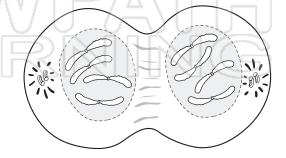


Telophase & Cytokinesis:

Chromosomes loosen, nuclear

membranes form around chromatin.

Cell pinches in middle and divides.

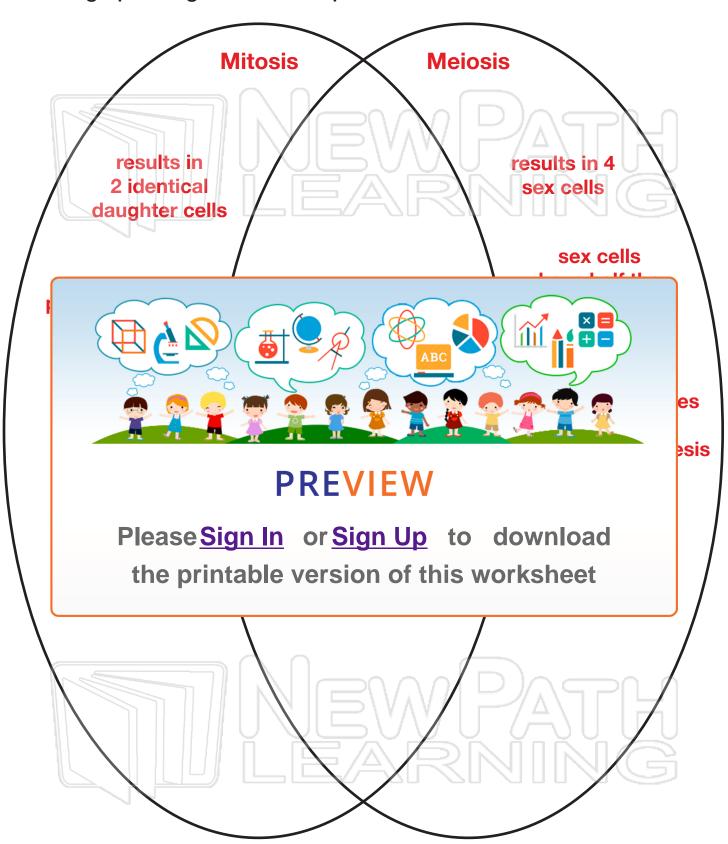






Answer Key - example

Use the graphic organizer to compare and contrast Mitosis and Meiosis.







Answer Key

A Punnett Square shows all the possible allele (gene) combinations in the offspring of two organisms. Complete the square below.

