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STUDY GUIDE

REVIEW STRATEGIES • CRITICAL THINKING


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SECTION 1

Directions: Write the equation for photosynthesis in the box and then explain its process using the diagram below. Include in your explanation the stages of photosynthesis.

Date: _____

Initials: _____



SECTION 2

Directions: Fill in the box below with the respiration equation, and then describe the stages of cellular respiration.

Initials: _____

Stage 1

Stage 2

Cellular Respiration

SECTION 3

Directions: Answer the questions about the cell cycle and its three stages below.

Stage 1: Interphase

Describe the process that occurs during interphase.

Stage 2: Mitosis

What happens during mitosis.

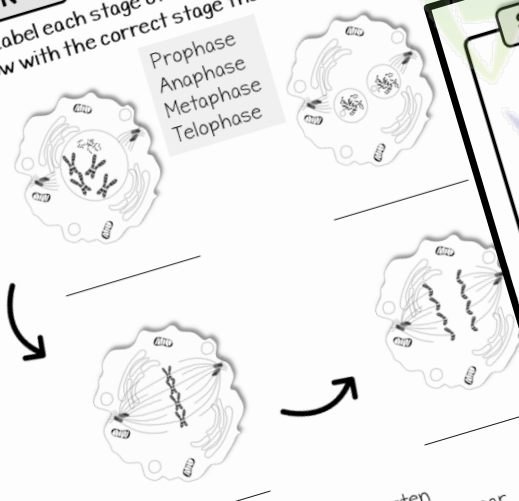
Cytokinesis

Initials: _____

SECTION 4

Directions: Label each stage of mitosis on the diagram. Fill in the blanks below with the correct stage that fits the description.

Prophase
Anaphase
Metaphase
Telophase



1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

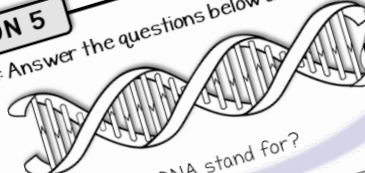
8. _____

9. _____

spindles begin to shorten
the nucleolus begins to disappear
all chromosomes are pulled into the center
cell
two new nuclei are formed
the mitotic spindle begins to form
the double membrane forms allowing cytokinesis
sister chromatids separate, and each chromatid is considered a "daughter"
chromosomes form
chromatids move to opposite sides of the cell

SECTION 5

Directions: Answer the questions below about DNA.



1. What do the letters DNA stand for?

2. What does the DNA code contain?

3. What are the "rungs" of the ladder?

4. Which section of DNA contains information about the organism?

5. What is the role of DNA in your body?

Directions: Draw a line from the nitrogen bases to the correct base pairing.

Thymine

Cytosine

Guanine

Adenine

SECTION 6

Directions: Answer the questions below about cell cycle and cancer.

Explain the control system of a cell cycle and how cancer is a disruption to that cycle.

A benign tumor is

A malignant tumor is

Environmental Causes of Cancer

Genetic Causes of Cancer

What are some possible treatments of cancer?



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