Standardized Test Preparation

READING

Passage 1

1. C
2. G
3. A

Passage 2

1. D
2. G
3. C

INTERPRETING GRAPHICS

1. A
2. I
3. D
4. F

MATH

1. D
2. I
3. D
4. H
5. C
6. H

Vocabulary Activity

Two Make Two: What are chromosomes? What are homologous chromosomes? What is the cell cycle? What is mitosis?

In and Out: What is endocytosis? What is active transport? What is *exocytosis?* What is passive transport?

Process This: What is diffusion? What is osmosis? What is photosynthesis? What is fermentation?

I Can 'C' You: What is the cell cycle? What are chromosomes? What is cellular respiration? What is cytokinesis?

SciLinks Activity

Answers may vary. Sample answer:

Jill: Hi! I just watered my jade plant. But I don't understand how a plant gets the water inside! It doesn't have a mouth to drink like animals do. Do you know how a plant takes in water?

Me: You're right, Jill. Plants don't have mouths. But they take in water by a process called osmosis. Water moves out of the soil and into the plant's roots by osmosis.

Jill: What is osmosis?

Me: Like all other living things, plants are made up of tiny pieces called cells. Cells are surrounded by membranes.When water moves through a membrane, it is called osmosis. When the roots of your jade plant are dry and you water them, the water travels to the roots and makes your plant green and healthy again.

Performance-Based Assessment

FORM A HYPOTHESIS

1. Sample answer: Yes or No
2. Sample answer: The casing may blow up.
3. Sample answer: The one in water will swell.

TEST THE HYPOTHESIS

1. I smell peppermint, garlic, and vanilla. Note: Some students may not smell the items in the balloons or may be confused about what they smell due to the odor of the balloon itself.
2. Sample answer: The sausage swells up.
3. Sample answer: The raisin appears swollen and has fewer wrinkles.

ANALYZE THE RESULTS

1. Sample answer: The scents of the balloons' contents are diffusing through the balloon.
2. Sample answer: Water concentration in the sausage and raisin was low, while outside it was high. Water diffused across the membranes, raising the water concentrations inside the sausage and raisin.

DRAW CONCLUSIONS

1. Sample answer: Materials diffuse across cell membranes the way materials d i ffused across the "membranes" in the experiments. In cells, diffusion brings water and nutrients `into the cell and sends waste products out of t he cell.

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