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Name \_\_\_\_\_ Date 3/25/11 Period \_\_\_\_\_ Page 2 \_\_\_\_\_

### Cell Transport, Energy, and Division Review Sheet

Review Sheet Due Date: Monday, April 4<sup>th</sup>

Quiz Date: Thursday, April 7<sup>th</sup>

Cell Transport: Use your book (Chapter 2, section 4), notes, and labs.

- What is passive transport? What are the two types we discussed?  
**PT:** Movement of particles from an area of high concentration to an area of low conc. without the use of energy.

#### Example: Diffusion and Osmosis

- Describe diffusion and osmosis. What is the difference between them?  
**Diffusion:** Molecules move from high to low concentration  
**Osmosis:** Diffusion of water molecules through a selectively permeable membrane.

Osmosis is diffusion, but it is the diffusion of water through a membrane.

- What is active transport?  
**AT:** The movement of particles through a membrane using ENERGY. They move from low to high concentration (up the gradient).

- How is active transport different from passive transport? Give 2 reasons.  
1. Active transport uses ENERGY, passive does not.

2. Active = Low to High Concentration  
Passive = High to Low Concentration

3. Active = Up the concentration gradient  
Passive = Down the concentration gradient

- Complete the table below:

Lab Title (Subject)	Type of Passive Transport	How do you know?
Cancer Lab	Osmosis	The water moved from a high conc. to a low conc. through the cancer.
Air Freshener	Diffusion	The air freshener moved from high to low conc., but it did not pass through a membrane.

Name \_\_\_\_\_ Date \_\_\_\_\_

### Cells Review Packet – Answer Key

Word Bank – Use the words below to answer the questions.

You will use some words more than once.

Mitochondria	Ribosomes	Diffusion	Cell Wall
Phospholipid	Respiration	Hydrophobic	
Membrane	Chloroplasts	Eukaryote	Prokaryote
Cell Wall	Vacuole	Nucleus	Semi-permeable

- This word means “fear of water” and describes molecules that do NOT bond with water. **hydrophobic**
- This is a molecule with a hydrophilic head and a hydrophobic tail that is arranged in a bilayer (double layer) to form the cell membrane.  
**phospholipid**
- This is the part of a cell where the DNA is stored. It is the control center.  
**nucleus**
- This large organelle stores water and food and supports plant cell structure.  
**vacuole**
- These organelles are found in both plant and animal cells. Their job is to make energy for the cell.  
**mitochondria**
- This word describes cells that have a nucleus.  
**eukaryotes**
- These organelles make proteins. Some float around in the cell and others are bound to the endoplasmic reticulum.  
**ribosomes**
- This is the protective outer layer that holds the animal cell together. It is semi-permeable.

Homeostasis and Transport

1. Technology Enhanced Questions are not available in Word format.

2. If the water concentration inside a cell is higher than the water concentration outside the cell, water flows out of the cell. This method of molecular transport is called

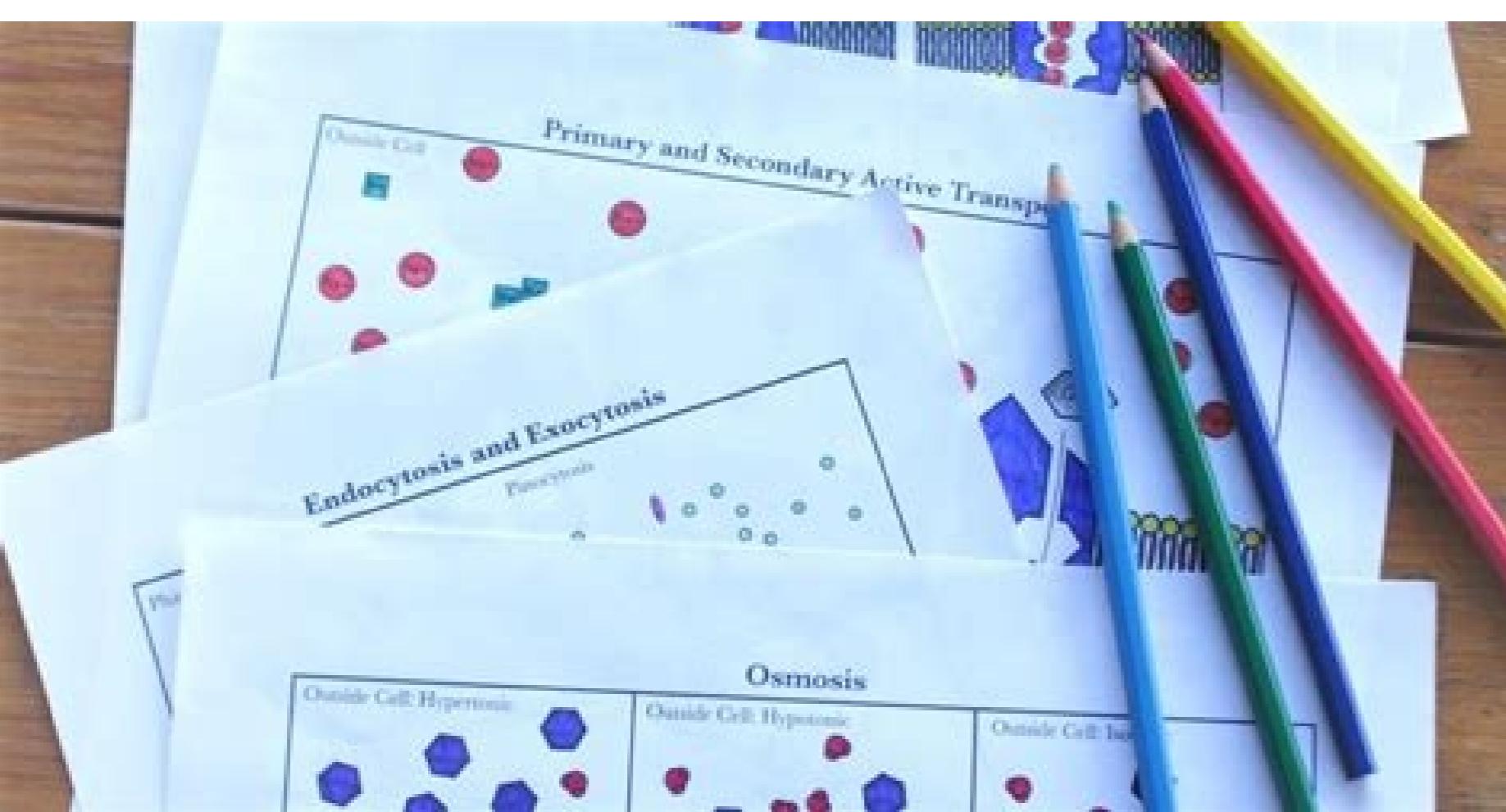
A. a sodium pump.  
 B. exocytosis.  
 C. osmosis.  
 D. endocytosis.

3. During heatstroke, the body can't dispose of excess heat. As a result, the homeostatic balance is disturbed, and internal body temperatures can reach as much as 110°. Heatstroke is dangerous to people primarily because

A. it causes pneumonia.  
 B. cells can't function properly at high temperatures.  
 C. blood pressure becomes too low.  
 D. blood vessels may rupture.

4. Permeability is the condition of being capable of having materials flow in and out of a membrane. The permeability of a cell membrane is determined by how easily a molecule can diffuse across the membrane. Usually, only certain types of molecules can permeate across a cell membrane. Why is this the case?

A. Water-soluble molecules are nonpolar.  
 B. Water-soluble molecules are too large.  
 C. Cell membranes are composed of a lipid bilayer.  
 D. Cell membranes are composed of cytosol.



The phytic Edido is a vitamin B. If a woman obtains sufficient phytic before and during early pregnancy, she can help prevent neural tube defects (major brain defects or the baby's spine). Women need 400 micrograms of phytic every day. Women can obtain phytates by taking a vitamin with 400 micrograms of phytic in it or eating fortified foods with phytates (such as some breakfast and food cereals made with flour enriched with vitamins). Neural tube defects are serious defects of the birth of the brain and spine. They develop very early in pregnancy when the neural tube, which becomes the brain and spine, does not close properly. It is needed phytates so that the neural tube is closed correctly. Starting the intake of phytates after developing time that the neural tube must have closed (after 6 weeks of pregnancy) will not avoid neural tube defects. The two common neural tube defects are the spina bifida (affects the column) and anencephaly (affects the brain). The CDC urges all women capable of becoming pregnant to take 400 micrograms of phytates daily to help prevent neural tube defects (major birth defects of the brain or the baby's spine). The term is 'phytic' However, folic acid is a general name used to describe vitamin B9 that comes in different forms. These include: phytic E, dihydrofolic acid (DHF), tetrahydrofolic acid (THF), 5-methyltetrahydrofolic acid (5-MTHF), and 5-methyltetrahydrofolic acid (5-MTHF) [1]. The phytate is the synthetic form (man) that is used in vitamin supplements and in fortified foods such as rice, pasta, bread and some cereals of sotnemila sotnemila ne socir ed adarbiluque atied anu remoc nebed serejum sal. selojuv y sacirAc saturf ajoh ed sedrev saradrev omoc sotnemila ne rartnco eedep es otalof IE. J6-21 odnum le odot ed sesAap ne v sociAtneic soidstute sohcnem ne laruen obut ed sotcefed sol rineverp arap zacife se ocllAf odic;A le euq odartsomed ah eS natural folate. However, it is very difficult for most women to get the recommended daily amount of folate through the meal alone [7]. The effectiveness of supplements containing any form of folate other than folic acid (such as 5-MTHF, or labeled "natural folate") has not been studied to prevent neural tube defects. The folate in the food is easily broken down by heat and light. Folic acid is the most stable form of vitamin B9 and is therefore more suitable for food fortification since many fortified products, such as bread, are baked [8]. Folic acid has been shown to be effective in preventing neural tube defects in randomized control tests, community intervention programs and food fortification programs. [2-6] Folic acid is easily absorbed in the body and studies have shown that it can increase blood folate concentrations in populations (including those with the TT MTHFR variant below for additional information) [9, 10]. The blood folate concentration is the amount of measured folate in the blood. When a woman receives folic acid through food or supplements, her blood folate concentration increases. When the blood folate concentration is too low, there may be medical problems. Very low blood folate concentrations can cause a form of anemia called megaloblastic anemia. Having enough folate in the blood can help improve a woman's health and can reduce her risk of having a pregnancy affected by a neural tube defect [11]. Once a woman starts taking 400 micrograms of folic acid every day it may take several months to reach a blood folate concentration high enough to help prevent neural tube defects. The amount of folic acid and/or food folate and esracifeneb esracifeneb nedep. TC optoneg o RFHTM TT neneit euq sal sadot. 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Berry, R.J., et al., Prevention of defects of the neural tube with phones in China. China-ee. UU. Collaboration project for the prevention of neural tube defects. N English J Med, 1999, 341 (20): p. 1485-90. Neural tube defect prevention: results the Medical Research Council Vitamin Study., in Lancet. 1991, p. 131-7. Tinker, S.C., et al., Usual folic acid intakes: a modelling exercise assessing changes in the amount of folic acid in foods and supplements, National Health and Nutrition Examination Survey, 2003-2004. Public Health Nutr, 2012, 15(7): p. 1216-27. Seyoum, E. and J. Selhub, Properties of food folates determined by stability and susceptibility to intestinal pteroylpolyglutamate hydrolase action. J Nutr, 1998, 128(11): p. 1956-60. Crider, K.S., et al., MTHFR 677C>T genotype is associated with folate and homocysteine concentrations in a large, population-based, double-blind trial of folic acid supplementation. Am J Clin Nutr, 2011, 93(6): p. 1365-72. Shelnutt, K.P., et al., Methylene tetrahydrofolate reductase 677C>A polymorphism affects DNA methylation in response to controlled folate intake in young women. J Nutr Biochem, 2004, 15(9): p. 554-60. Crider, K.S., et al., Population red blood cell folate concentrations for prevention of neural tube defects: bayesian model. BMJ, 2014, 349: p. g4554. Score: 0% Rank: Correct Answer: This is a 190 slide PowerPoint Review Game on Cellular Organelles that concludes Part III of my Cellular Biology Unit that I offer on TpT. Topics addressed in this review game are the Nucleus, Chromatin / Chromosomes, Nucleolus, Nuclear Membrane, Rough Endoplasmic Reticulum, Smooth Endoplasmic Reticulum, Ribosomes, Protein Synthesis, Golgi Apparatus, Lysosomes, Cytoskeleton / Microtubules / Microfilaments, Centrioles, Plastid, Photosynthesis, Mitochondria, Cellular Respiration, Vacuoles. In order to continue enjoying our site, we ask that you confirm your identity as a human. Thank you very much for your cooperation. Score: 0% Rank: Correct Answer: Answer:

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