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[Cell Membrane And Tonicity Worksheet Answer Key.zip | Added By Request](#)

Period \_\_\_\_\_ Date \_\_\_\_\_

### Worksheet - Osmosis & Tonicity

A "cell" with a semipermeable membrane has been placed in a beaker containing \_\_\_\_\_ . The membrane is **permeable** to water & urea. It is **not permeable** to glucose, when that label design's urea entry as an indicator for urea. Therefore, it will have the presence of urea. If not otherwise indicated, you may assume for each problem that

#### Beaker 1

- A. What is the % of water inside the cell? \_\_\_\_\_
- B. What is the % of water outside the cell? \_\_\_\_\_
- C. Will osmosis occur? \_\_\_\_\_
- D. If so, in what direction will osmosis occur? \_\_\_\_\_
- E. Will glucose diffuse? \_\_\_\_\_
- F. Will the cell shrink or swell? \_\_\_\_\_
- G. How do you know? \_\_\_\_\_
- H. This diagram shows the cell in a(n) (circle one) hypotonic / hypertonic / isotonic solution.



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#### Beaker 2

- A. What is the % of water inside the cell? \_\_\_\_\_
- B. What is the % of water outside the cell? \_\_\_\_\_
- C. Will osmosis occur? \_\_\_\_\_
- D. If so, in what direction will osmosis occur? \_\_\_\_\_
- E. Will glucose diffuse? \_\_\_\_\_
- F. Will the cell shrink or swell? \_\_\_\_\_
- G. How do you know? \_\_\_\_\_
- H. This diagram shows the cell in a(n) (circle one) hypotonic / hypertonic / isotonic solution.



#### Beaker 3

- A. What is the % of water inside the cell? \_\_\_\_\_
- B. What is the % of water outside the cell? \_\_\_\_\_
- C. Will there be a net change in these concentrations? \_\_\_\_\_
- D. Will osmosis occur? \_\_\_\_\_ Why? \_\_\_\_\_
- E. Will urea diffuse? \_\_\_\_\_ Will glucose diffuse? \_\_\_\_\_
- F. If urea were placed in the beaker, what would you see immediately? \_\_\_\_\_
- G. What would you see after several hours? Why? \_\_\_\_\_
- H. This diagram shows the cell in a(n) (circle one) hypotonic / hypertonic / isotonic solution.



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Apr 19, 2016 ... NAME\_KEY\_LDATE\_. Cell Membrane Coloring Worksheet. Composition of the Cell Membrane & Functions. The cell membrane is also called .... cell membranes are said to be selectively permeable (or differentially ... selectively permeable membrane from a hypotonic to a hypertonic solution. The ... Benedict 's test for Reducing Sugars1: When Benedict's reagent is added to an unknown ..... death, especially if the weather before and after application is dry and/or you.. Cells must move materials through membranes and throughout cytoplasm in order ... The terms hypertonic, hypotonic, and isotonic are used to describe solutions ... solution has a lower solute concentration and a higher water potential than ... If solute is added to the water surrounding the plant cell, the water potential of the.. Nov 24, 2011 ... Osmosis will occur resulting in either turgid cells or plasmolysed cells. ... slide and either distilled water or 5% sodium chloride solution is added to the cells. ... occurred) when the cell contents shrink and come away from the cell wall. The student sheet introduces the word, but does not require them to use it .... Sugar molecules can enter cells through channel proteins, which require ... Plant and animal cells both have selectively permeable cell membranes. ... C-Lysed animal cell & F-Turgid plant cell; both are in hypotonic (distilled water) solution .... Lettuce salad + salt added = wilted lettuce and water accumulated at bottom of .... Keywords: cell membrane, cell, phospholipid, active transport, passive transport, osmosis, diffusion, facilitated diffusion, hypertonic, hypotonic, isotonic ... Hydrophilic and hydrophobic should be added as pertinent vocabulary. The teacher can ask for written or verbal answers to the following questions as a quick check for .... Cell Membrane Coloring Worksheet. Composition of the Cell Membrane & Functions. The cell membrane is also called the PLASMA membrane and is made of a ... the cell. This is known as simple DIFFUSION because it does not require .... Label the tonicity for each solution (isotonic, hypotonic, or hypertonic):.. Composition of the Cell Membrane The cell membrane is also called the ... it does not require ATP (energy) and the water or molecules are moving along the ... the cell compared to inside of the cell. c. hypotonic- a solution with a lower solute .... -Define: Diffusion, Selectively permeable membrane, Osmosis, and Dialysis ... The cell membrane is a severely permeable membrane, and therefore it ... Passive processes do not require an expending of energy on the part of the cell, ... Hypotonic. • If a solution is hypotonic. – The concentration of solutes outside is less.. To make a 5% salt solution, weigh 5 grams of NaCl and place in a graduated cylinder. ... Have students go to the following two sites: Cell Membrane, on the Life ... Thus, when the salt water solutions are added, any changes that occur to the plant cells ... When the water movement is out from a cell, we call this plasmolysis.. The cell membrane plays the dual roles of protecting the living cell by acting as a barrier to the ... need to understand the makeup of the cell membrane and an important .... The tonicity of a solution involves comparing the concentration of a cell's ... Observe what happens to the cells (this may require you to search around .... Hypertonic, isotonic, and hypotonic solutions and their effect on cells. ... Formally, osmosis is the net movement of water across a semipermeable membrane from ... To answer it, let's take a step back and refresh our memory on why diffusion .... Cell Membrane Coloring Worksheet ANSWER KEY ... (a PASSIVE TRANSPORT) because it does not require ENERGY and the water or molecules are ... Color and label the cell in an isotonic environment light blue, the hypotonic environment .... The cell membrane also separates life from the nonlife on its exterior. .... The solution that has a high-solute concentration is a hypotonic solution ... Sodium ions inside the cell bind to the transport protein as a phosphate is added from an ATP, .... from the publisher, visit the Penguin USA website or call 1-800-253-6476.. Match the cell membrane structure or its function with the correct letter from the ... cells require C. Hypotonic \_\_\_\_\_ red blood cell bursts (cytolysis) \_\_\_\_\_ plant cell ... Let's put both cells into Solution B. Because Solution B is hypertonic to the .... Sep 27, 2018 ... Cell Membrane And Tonicity Worksheet Answer Key.zip | Added By 319 ... best online photo management and sharing application in the world. 09d653b45f