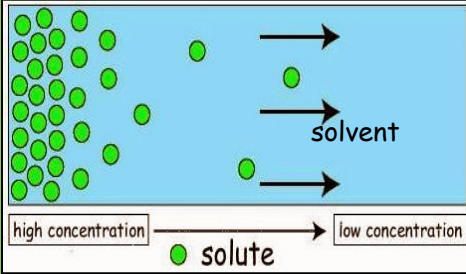


DIFFUSION IN A SOLUTION



LIFE 4 CELLS 3

SCIENCE 8 NOVEMBER 2019
MRS. PLYTER PLYTER.COM/SCIENCE

Name _____

Period _____

I'm Learning By Osmosis



Thu

13



14

PBS Osmosis:

Life → PBS Osmosis

1. Count the water (H₂O) molecules: Write ↓

Before:

- a) Total **Water Molecules?**
Left _____ Right _____
- b) "Free" water molecules?
Left _____ Right _____
- c) Attached to Sodium (Na)?
Left _____ Right _____

2. →Run to Equilibrium

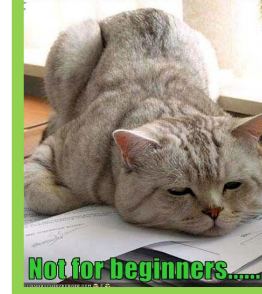
After:

- d) "Free" water molecules?
Left _____ Right _____
- e) How many water molecules for equilibrium? _____
- f) Each Na of NaCl (Salt) holds _____ water molecules that (do/don't?) count for equilibrium.

Get a Screen Check

13

Learning by Osmosis



Cells

Study Diagram:

Add Functions

Google Classroom

Discovery Education: Intro to Diffusion & Osmosis:

In diffusion, particles _____

If a membrane is involved, it is then _____

Get a Screen Check

McGraw Hill ConnectEd: Osmosis: Fill in:

1) Hypotonic = _____ salt
Water moves _____
Cells _____

2) Isotonic = _____ salt
Water moves _____
Cells _____

3) Hypertonic = _____ salt
Water moves _____
Cells _____

Get a Screen Check

If Time: Science → Life →

Why Don't We Drink Seawater? _____
Osmosis in Potato... _____

Investigate!

What Happens to Cells in Saltier Water?

- 1. Compare living cells in faucet H₂O, distilled H₂O and salt H₂O.
Extra: Use 2 concentrations of salt H₂O.
- 2. Potato and onion are available. You may bring others.
- 3. You need before and after measurements and drawings for each substances sample & water.
- 4. Plan to soak your cells for 20 min. There may be change in less time.
- 5. A chart with appropriate and organized headings is required to obtain plant materials.
- 6. Summarize and compare your findings to others on the back of this Calendar.

Central Science Home Page www.plyter.com/science

Discovery Education → Introduction to Diffusion & Osmosis Username = 24yearlastf Student #

McGraw Hill ConnectEd → Interactives → Osmosis Login: Try Last years or, Ask.

Life Science → PBS Osmosis → Why Don't We Drink Seawater? → Osmosis in Potato...

Google Classroom Google Page → Class Code: yzbzxn

DAILY QUIZ: Practice Tests → MyGradebook → plyter20 + Your ID#



Points Objective + Grade

Online + Calendar Blanks

Investigate!

Cell Study Diagram

Calendar Back

Extra

Quizzes:

correct. Initial in color.

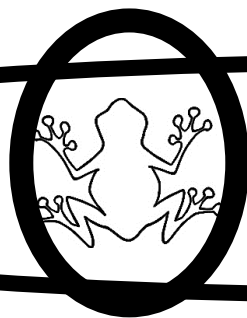
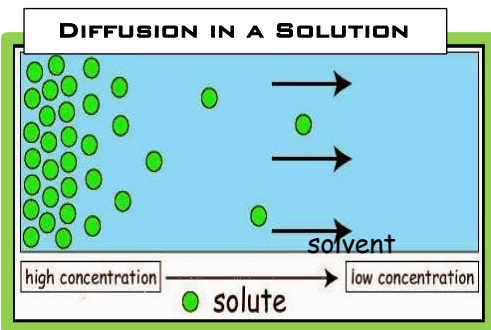
Tue _____

Wed _____

Thu _____

Total _____

W2L _____



OBJECTIVE:

Your Grade for Last Week:

	Yours	Required
Objective + Grade	___	10
Animal Cell Lab	___	15
Cell Study Diagram	___	20
Calendar Cell Labels	___	5
Daily Quizzes	___	21
Extra	___	
Total	___	71

Yours / Required X 100 = %

___ / 71 X 100 = ___

% Grade in Gradebook ___

Last week my grade went

↑? or ↓? ___

*Ask about ? on your Calendar.
Hand in Late! Do "If Time".*

Write the Objective: _____

Diffusion and Osmosis:

A. Define:

1) Diffusion _____

2) Osmosis _____

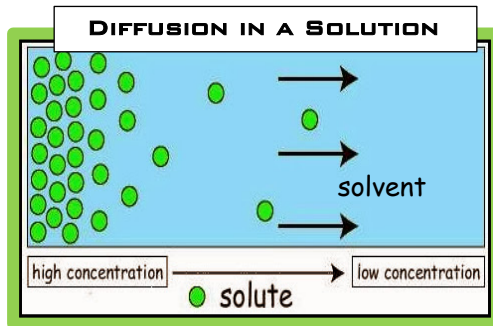
B. Summarize your findings of "What Happens to Cells that are Placed in Saltier Water?" Compare your results to that of others.

___ 1) Search the text and/or online to find drawings of blood cells and other cells in pure water, normal solution and in salt water.

___ 2) Draw and label below. Draw plant or animal parts and/or cells. Label to explain.

___ 3) Add your evidence from your investigation as labeled drawings. Add the labels: isotonic, hypertonic and hypotonic.

Data Source	Cell Type(s)	Distilled Water (No Salt)	Normal Water (Faucet)	Saltier Water
Your Investigation				



OBJECTIVE:

To better understand the functions (jobs) of cell membranes by investigating and observing the results of diffusion of materials through a membrane (osmosis) and to use appropriate prefixes (hypo-, hyper-, iso-, equ-).

What Happens to Cells in Saltier Water?

Name _____

Period _____

