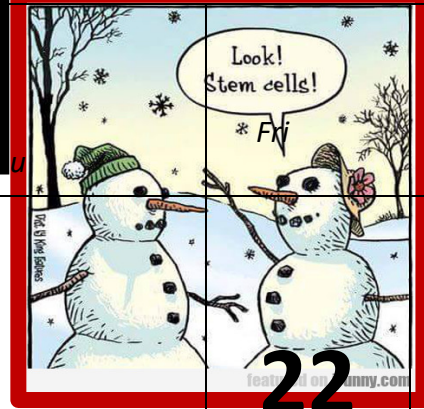


LIFE 5 CELLS 4

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

Name _____ Period _____



Points Objective + Grade

Osmosis Calendar Back

PBS Osmosis

18

Osmosis:
Fill in the Back of this Calendar

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 _____

"Why Don't We Drink Seawater?" Science → Life → _____

19

Cell Study Diagram:
Add Functions.
(Add some stringy DNA in the nucleus?)
Google Classroom or Paper

20

Stem Cells are "First Cells" that change to other cells, including cheek cells, muscle cells, blood cells and nerve cells. The cell's DNA (genes) tells the cell what organism it is.

If Time — & If you haven't..

Science → Life →

____ Pearson Cell Activity _____

____ Stem Cells – Discovery Ed _____

____ Osmosis in Potato... _____

Try this!

____ Organize your Saltier Water Data in a spreadsheet (Google Classroom). _____

____ Organize a spreadsheet for Prefixes & suffixes in Google Classroom _____

If Done Ask!

____ Investigate Onion cells in saltier water _____

____ Demonstrate Diffusion & Osmosis in Iodine & Starch Read or Watch a video first. Ask. _____

____ Find a better video clip for diffusion & osmosis. _____

Prefixes & Suffixes to Know:
Fill in the meaning from the list.
X as you go.

____ more, ____ less, ____ cell,
____ equal, ____ equal, ____ green
____ liquid, ____ life,
____ study of, ____ hydrogen,
____ oxygen

1. -ology _____
2. -plasm _____
3. Bio- _____
4. Chloro- _____
5. Cyto- _____
6. Equi - _____
7. hydro- _____
8. Hyper- _____
9. Hypo- _____
10. Iso- _____
11. Oxi- _____

DNA is in the **nucleus** of each **cell** of each **living thing**. **DNA** → comes in long molecules that each curl up to make a **chromosome**. One slice of a **chromosome** is a **gene**. **Genes** direct cells to form traits as they tell the cells what to do. Humans cells each have **46 chromosomes**, 23 from each parent. Grasshopper **cells** each have **24 chromosomes**. **Genetics** is the study of **genes** and **heredity**.

Cell Study Diagram

Prefixes

Extra

Quizzes:
correct. Initial in color.

Mon _____

Tue _____

Wed _____

Thu _____

Mygradebook.com

Total _____

What2Learn

W2L _____

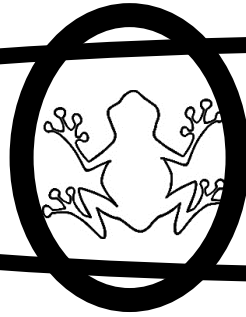
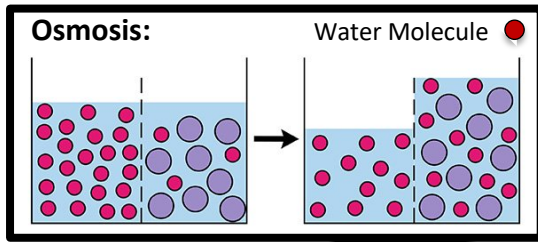
Central Science Home Page www.plyter.com/science

McGraw Hill **Rubber Duck** → Interactives → Osmosis Check Green Binder 4

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

Google Classroom Google Page → Class Code: yzbzxn

DAILY QUIZ: Practice Tests → MvGradebook.com → plyter20 + Your ID#



OBJECTIVE:

Write the Objective: _____

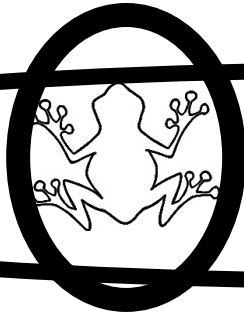
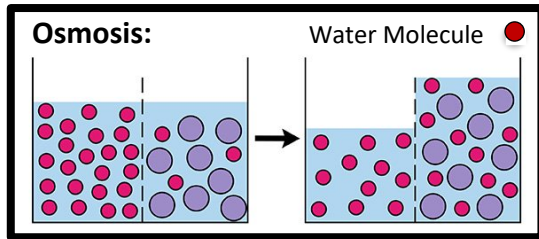
Your Grade for Last Week:	
	Yours Required
Objective + Grade	_____ 10
Calendar Blanks Define	_____ 10
Investigate	_____ 30
Daily Quizzes	_____ 21
What2Learn	_____ 10
Extra	_____
Total	_____ 81
Yours / Required X 100 = your %	
_____ / _____ X 100 = _____%	
Look up your % in Gradebook _____%	
Last week your % went _____ ↑ or ↓?	
By how many % points? _____	
Ask about ? on your Calendar. Hand in Late! Do "if Time".	

Osmosis:

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

- ___1) Try the *McGraw-Hill* Interactive about Osmosis. (Science → McGraw Hill Rubber Duck → Osmosis) Add labeled drawings below.
- ___2) Search (text/online) to find drawings of cells in pure water, normal solution and in salt water. Add labeled drawings below.
- ___3) Add evidence from your investigation. Use your before and after data, as well as the class averages.
- ___4) Add the labels: **Isotonic, Hypertonic and Hypotonic.**

Data Source	Name of Cell or Plant used	Distilled Water (No Salt) _____	Normal Water (Faucet) _____	Saltier Water _____
<i>McGraw Hill</i> The Nature of Science Interactive Osmosis				
??				
Your Investigation + Class Results				



OBJECTIVE:

To better understand investigation and research through the use of a variety of resources to explain processes.

(MSLS12)