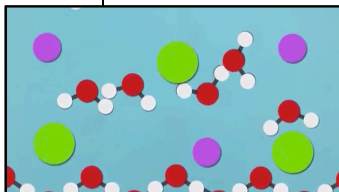
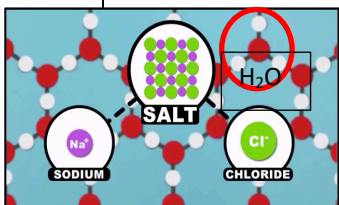


CHEMISTRY 4: INVESTIGATE!

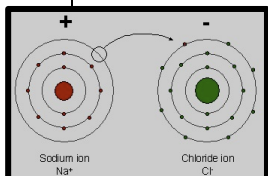
SCIENCE 8 OCTOBER 2019
MRS. PLYTER PLYTER.COM/SCIENCE

Name _____

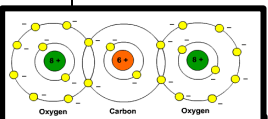
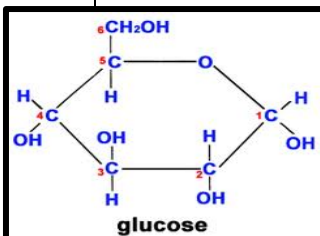
Period _____



Salt and Water Diagrams ↑
Label the second image ↑



NaCl: Table Salt



Carbon Dioxide CO₂

8

Investigate NaCl in H₂O

I agree to: Initial as you agree. Sign/Get Checked before you start.

1. Wear Goggles that you clean with a disinfectant wipe.
2. WATCH for, LISTEN for, and Follow Safety Rules.
3. Watch for, LISTEN for, and Follow Equipment Rules.
4. Use No Pressure on Digital Thermometers. Rinse after use.
5. Work with one person? Ask! All people record data.

Your Signature _____ CHECKED _____

Use an Inquiry Paper:

1) Background: Use a thermometer and a mixture of liquid H₂O and solid H₂O to determine the melting /freezing point of H₂O in degrees °C.
_____ °C Have Checked _____

2) When H₂O freezes, the H₂O molecules line up as best they can and form a _____.

Adding sodium chloride (____) changes that. Na⁺ and Cl⁻ get in the way so H₂O molecules can't line up as quickly or as well.

3) Acceptable investigations are measured and replicable, which means someone else can repeat them with the _____

4) Use your Inquiry Paper as you investigate the effect of different amounts of NaCl on the freezing /melting point of water.

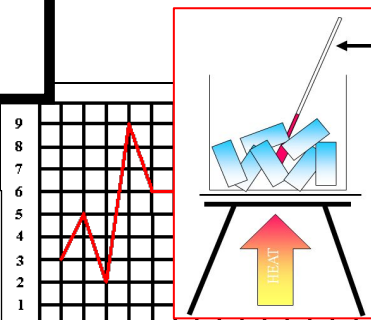
5) Measure in Celsius (°C), milliliters (ml) and/or grams(g).

6) As you do a section, have it checked and initialed here.

NOTES:

Besides H₂O and NaCl, some available tools: Read. Ask.

- graduated cylinders,
- beakers,
- thermometers,
- paper towels,
- stirring straws,
- measuring spoons
- digital scales



A B C D E F G H I J K L M N O

Ice to Steam Graph.

Class Lab - Your Data Handout _____

Try 1 or more, of These!

Atom Builder Activity

on the OLD iMac Desktop:
Make a Carbon Atom.

Screen Check _____

What are Quarks?

Elements and Compounds

Examples Worksheet _____

The Particle Model

Worksheet _____

Classic ChemBalancer

Physical Science Page

Screen Check _____

Thu

10

Points:
Calendar

Objective + Back and Front Blanks + Labels

Grade

Investigate

Agreement Background +

Calendar DUE

Ice to Steam Graph

Try These!

Daily Quizzes

Write Number Correct.
Initial in Color.

Mon _____

Tue _____

Wed _____

Thu _____

TOTAL _____

Central Science Home Page: www.plyter.com/science

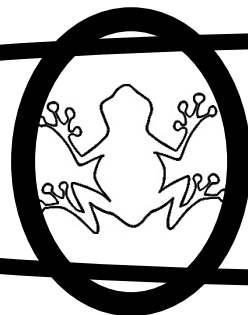
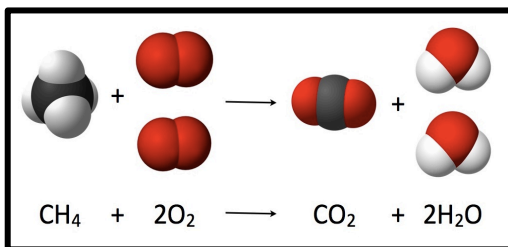
Screen Checks are Required!

Physical Science: → Quizzes → Classic ChemBalancer

Practice Tests: mygradebook.com Classword = plyter20 → Password = Your Student #

An OLD iMac: On the Desktop: Atom Builder Activity: Build Carbon. Have the screen checked (No Screen Shots).





OBJECTIVE:

Write the Objective:

You CAN do this! Fill in the blanks:

Your Grade for Last Week:

	<u>Yours</u>	<u>Required</u>
Calendar Back +	___	15
Grade	___	5
The Stuff...	___	15
Video/App	___	5
Compound Cards	___	5
H ₂ O Model	___	30
Daily Quizzes	___	35
Try These!	___	ex
Totals	___	110

Yours / Required X 100 = %
 ___ / 110 X 100 = ___

% Grade in Gradebook ___

Last week my grade went
 ↑? or ↓? _____ !

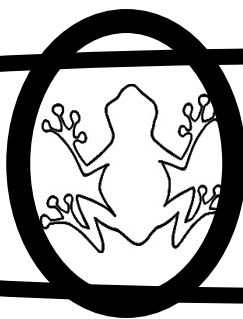
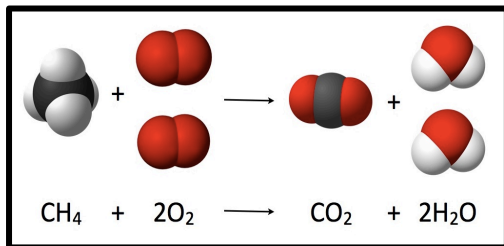
1) **Copy** the chemical equation for the image in the upper corner ↖ of this calendar.

2) Now write it again, but in words. (Look up CH₄.)

3) Write the chemical equation in formulas and then words for burning hydrogen in oxygen.

4) Write the chemical equation in formulas for sodium & chlorine combining to table salt.

5) Look up and write the chemical equation in formulas for the “miniature bonfire” in your cells. That is **sugar (glucose) burning in oxygen which is respiration.**



OBJECTIVE:

- 1) Safely design and carry out a replicable investigation of the effect of NaCl on the melting/freezing point of H₂O.
- 2) Observe, graph & explain the temperature change as solid H₂O goes to a liquid & to a gas.