

MATTER 5:

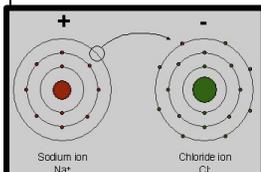
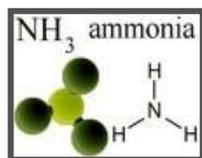
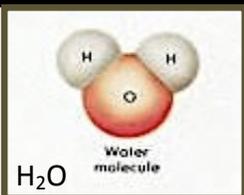
CONSERVATION OF MATTER

MATTER (AND MASS) IS NEITHER CREATED NOR DESTROYED, ONLY REARRANGED, DURING NORMAL CHEMICAL REACTIONS.

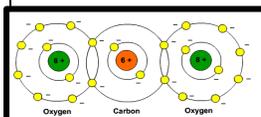
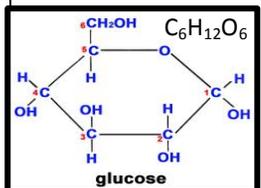
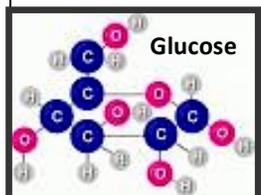
Science 8 October 2017 Mrs. Plyter <http://www.plyter.com/science>

Name _____

Period _____



NaCl: Table Salt



Carbon Dioxide CO₂

16

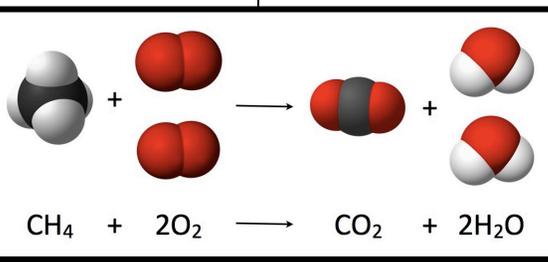
Compound Cards:

- 1) Water: H₂O _____
- 2) Carbon dioxide CO₂ _____
- 3) Table salt: NaCl _____
- 4) Ammonia: NH₃ _____
- 5) Glucose C₆H₁₂O₆ _____

(Simple Sugar): See left ← side of calendar for a drawing. Copy 1 of them.

1+ point per box

15+ _____



Methane Gas + Oxygen → Carbon Dioxide + Water

17

The Law of Conservation of Matter

See the back of this Calendar:

5 each

20 _____

18

Chemistry Online

...or the iMac
Do at least one of these:

Physical Science →
Classic ChemBalancer

10 _____

Jefferson Lab → Games and... → Element Math Game → All areas

10 _____

Atom Builder Activity
on the iMac Desktop

10 _____

Thu

19

If Time

Build an Atom Onlineif you haven't.
Neon _____
Fluorine _____

Try Google Classroom for your Prefix &... List. Ask!

Chemical Change Lab(s)

Fri

20

Science Calendar DUE THE LAST DAY OF THE WEEK!

Points:
Objective

Compound Cards

Model Evidence for Law of Conservation of Matter and Mass

Chemistry Online

Daily Quizzes

Mon _____

Tue _____

Wed _____

Thu _____

Fri _____

TOTAL _____

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

Physical Science: → Build an Atom

Classic ChemBalancer

Jefferson Lab: Physical Science → Jefferson Lab → Games and Puzzles

→ Element Math Game → 10 Questions → All Areas → Have checked on the screen.

Discovery Education: (Username = yearlastf Student #)

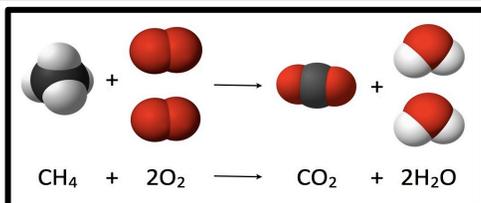
Practice Tests: QuizLab Classword = plyter18 → Password = Your Student #

iMac: On the Desktop: Atom Builder Activity: Carbon

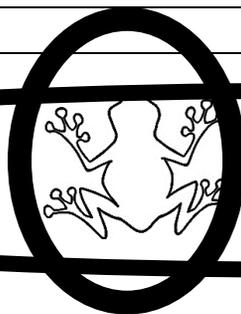


Name

Period



Methane Gas + Oxygen \rightarrow Carbon Dioxide + Water



OBJECTIVE:

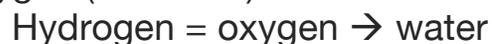
To MODEL evidence for the Law of Conservation of Matter & Mass during Chemical Reactions.

- ___1) Use chemical equations illustrated with diagrams of atoms and molecules. Use a different color for each element.
- ___2) Include a KEY, a COUNT of atoms and the total MASS for each reactant and product.

Background:

- ___1) Atoms of reactants are regrouped into different molecules, resulting in products and are written as a chemical equation.
- ___2) The total number of each type of atom, and the total mass, stays the same (Laws of Conservation of Matter and of Mass).
- ___3) The new substances (products) have different properties than the properties of the original substances (reactants).

1. Hydrogen burning in oxygen (oxidation):



2. Photosynthesis: Plants change the energy of the sun to glucose (sugar or food):



3. Respiration: Animals use glucose (sugar or food) and oxygen (oxidation) for energy:



4. Nitrogen and Hydrogen combine to form Ammonia.



5. Sodium burning in chlorine forms sodium chloride.



Copy the Objective:



OBJECTIVE:

I will MODEL evidence for the Law of Conservation of Matter during chemical reactions (chemical changes), using chemical equations illustrated with diagrams of atoms and molecules.