

LAO-MATIC



Ch 6

WZO-40AER

Review of Terms:

- MATTER- Anything that takes up space. Has mass & volume.
- CHEMISTRY- Study of matter & how changes.



PHYSICAL PROPERTIES

- Observable characteristics.
- Change w/o altering substance.
 - States of matter
ie: melting/freezing - still H₂O
- Examples: color, shine, texture, & flexibility.



CHEMICAL PROPERTIES

- Characteristic that indicates the Ability to change.
- Examples: flammability & reactivity.
- Reactions-change substance & energy

PHYSICAL CHANGES

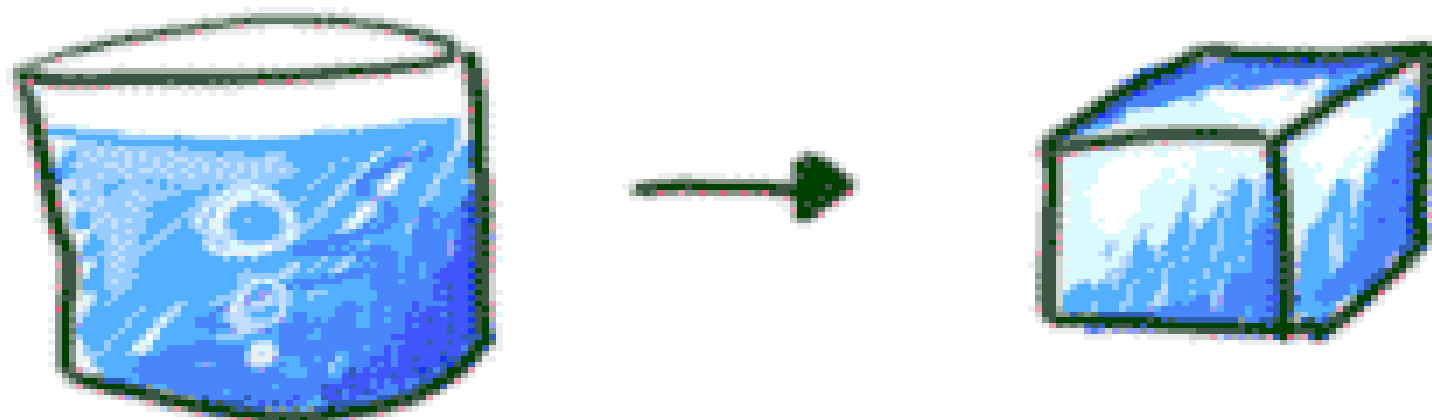
- Change in form.
- Stays the same substance.
- Examples: crushing, bending, breaking & cutting.



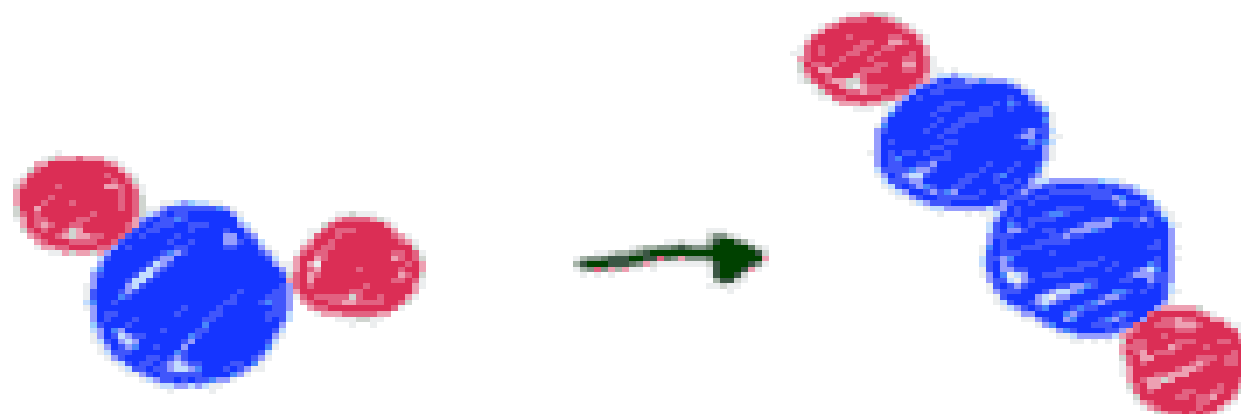
CHEMICAL CHANGES

- New substance formed with different properties.
- Atoms rearranged to form new substance. Bonding.





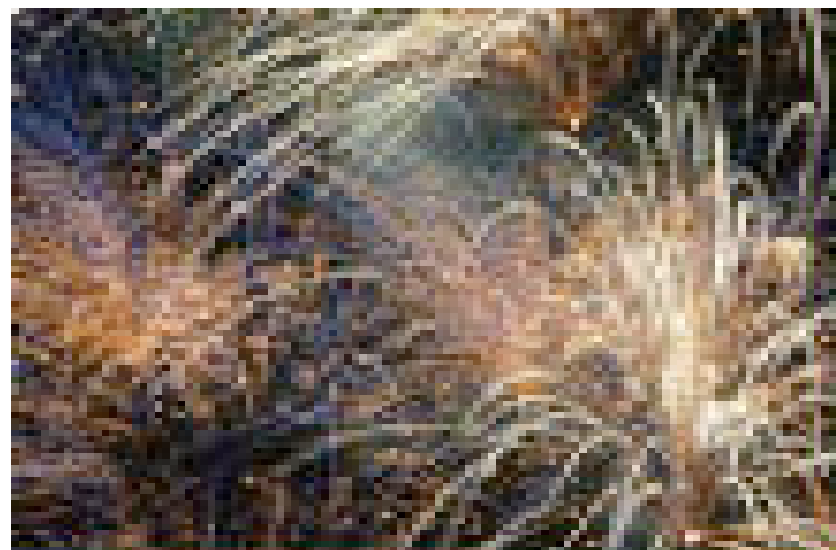
PHYSICAL CHANGE OF
WATER INTO ICE



CHEMICAL CHANGE OF
WATER INTO
HYDROGEN PEROXIDE

CHEMICAL CHANGES

- **REACTANTS-**
substances begin
with/ ingredients.



- **PRODUCTS-**
substances end up
with/ finished
product.

CHEMICAL CHANGES

- **EVIDENCE:**
 - Precipitate
[solid]
 - Gas forms
 - Texture change
 - Energy change





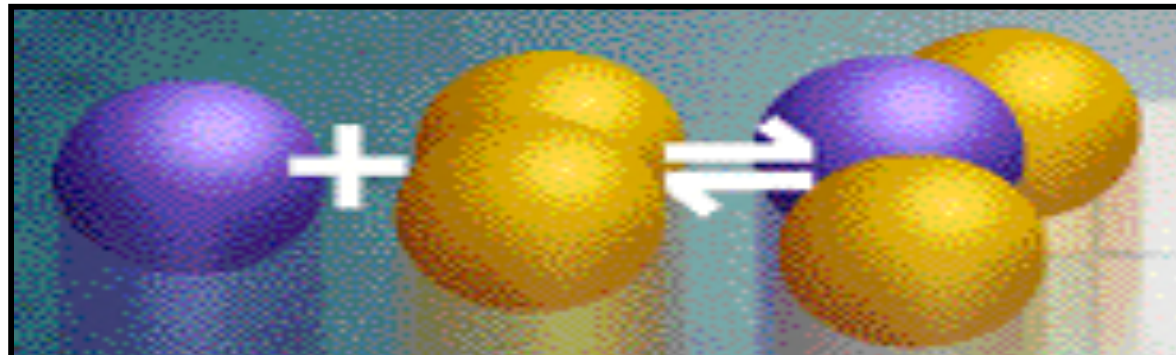
ENERGY

- Through chemical bonding, energy is absorbed or released.
- ENDOTHERMIC: Energy absorbed within. Temp. decreases, gets cold.
- EXOTHERMIC: Energy released out. Temp. increases, gets hot.



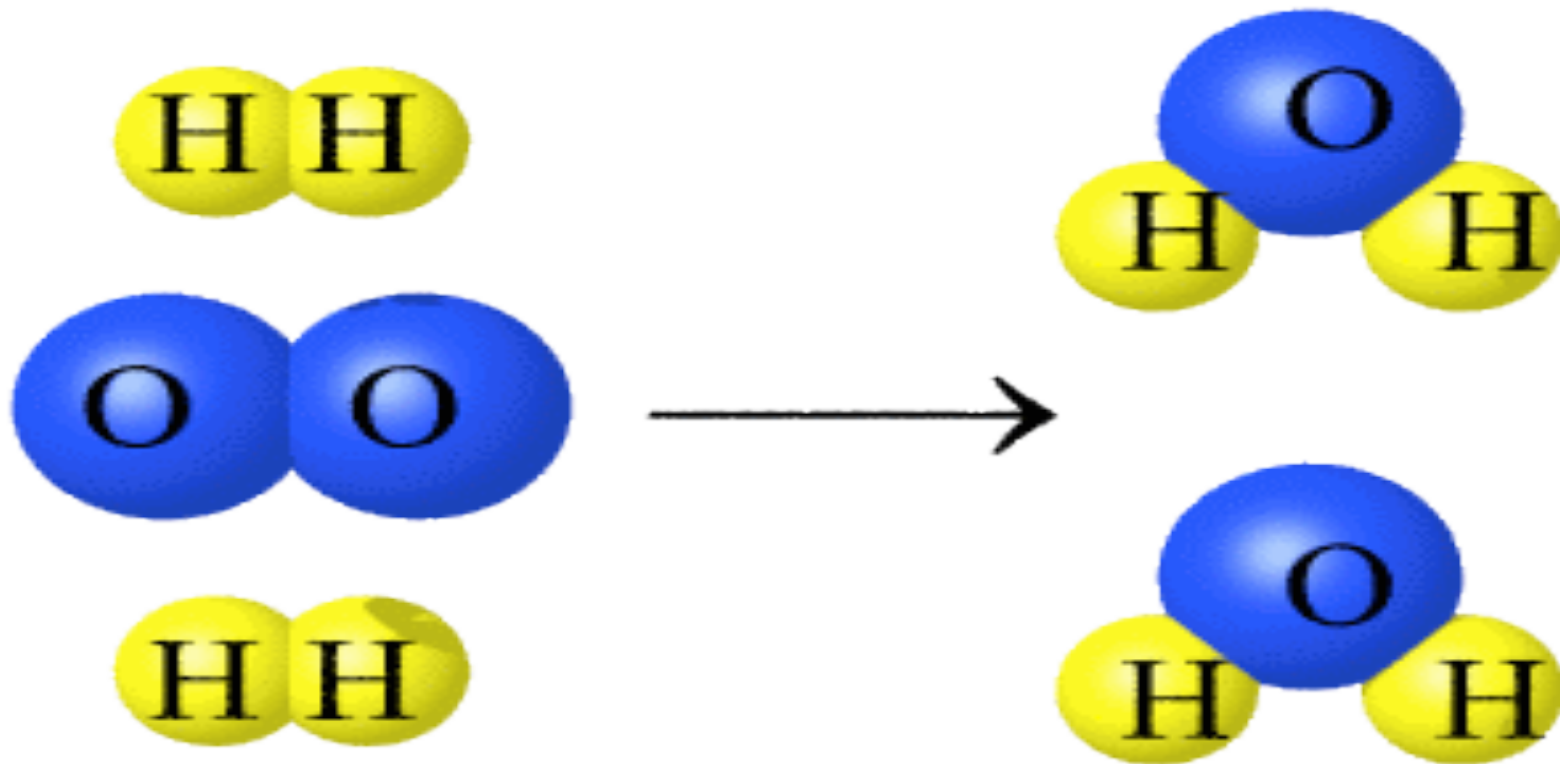
CONSERVATION OF MATTER

- Matter is not created or destroyed. The amount is always the same.
- Atoms are rearranged.
- The number of atoms on one side is equal to the number on the other side.



BALANCING EQUATIONS

- Equal number on both sides.





Chemical Reactions

are a Blast!

student

work

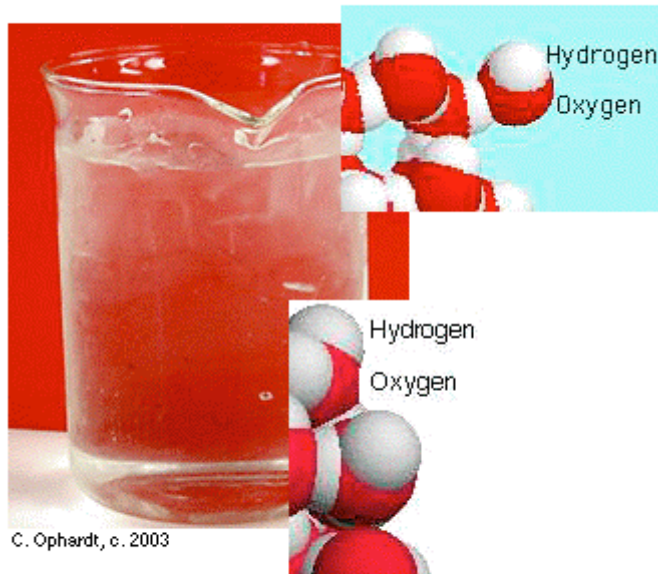
- Vocab Terms from period 3 2009-2010

OF

Physical Property

- Characteristic of substance can be observed without being changed

Ice Water

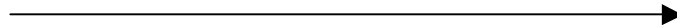


Texturing soil by the "Feel" method.

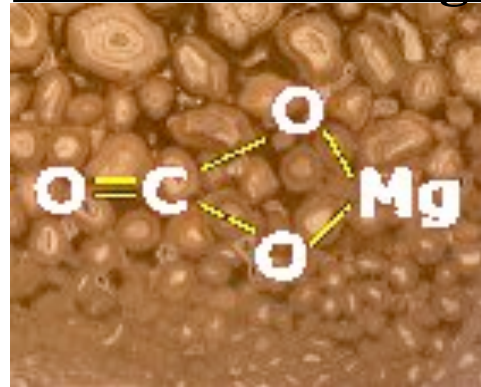


Chemical Property

RJ

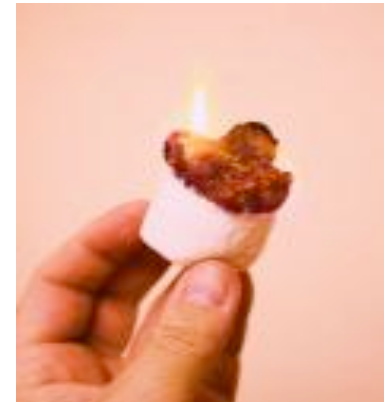
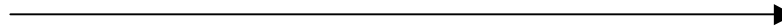


Substance changes



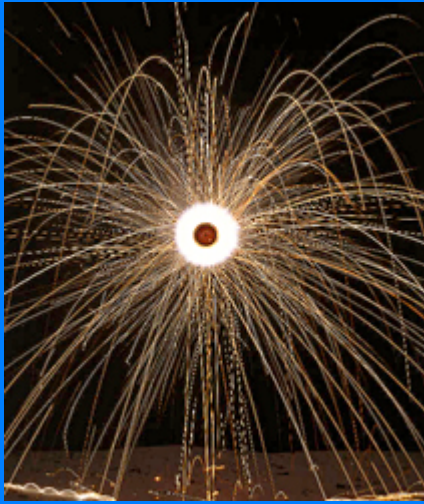
Chemical

Physical



Before

After



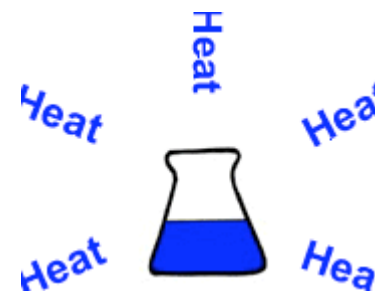
Chemical Change

New substances with different chemical properties.



Scott Bishop

Energy is absorbed by the reaction, so the temperatures get colder.



Endothermic Reactions



Needs heat from surroundings to happen.



EXOTHERMIC REACTIONS



Energy Exiting



Jet



Car

KH