Unit 4 - Week 30: Chemical Reaction Videos

Essential Question: What happens during a chemical reaction?

Objectives:

1. You will be able to identify evidence of a chemical reaction.

2. You will be able to write balanced chemical equations from word equations.

Vocabulary: reactant, product, chemical reaction, precipitate, state of matter, aqueous

Reactants: the substances present before the chemical reaction takes place, (the ones that *react*)

Products: the substances present after the chemical reaction takes place, (the ones that are *produced*)

Evidence that a chemical reaction has taken place:

• unexpected color change

- change in energy
- formation of a gas
- formation of a precipitate

Observation	Classification	Special Information	Example
1. After mixing two substances	Formation of a	Do NOT confuse this with	Hydrogen peroxide
together, bubbling occurs.	gas	heating up a substance and	on a cut
		observing bubbles. This is a	
		PHYSICAL change of boiling.	
2. After mixing two	Formation of a	A "new" smell is different from	Cooking pancakes
substances together or heating a	gas	the original smell.	(or any baking)
substance, a new smell is			
detected.			
3. After mixing two liquids	Formation of a	Notice how unexpected it is that	Cooking pancakes
together OR heating a single	precipitate	you would heat a liquid and it	(or almost any
liquid, a solid is formed.		would turn to a solid – usually	baking)
		it would turn to a gas.	
4. After mixing two	Unexpected	If you mix blue and yellow	When you add heat
substances together or heating a	color change	together, you get green. This is	to eggs, they turn
substance, the color changes		NOT unexpected.	from clear to a white
unexpectedly.			color.
5. When you take the	Change in	Temperature can go up or	Mixing table salt and
temperature before and after	energy	down.	water causes the
mixing two substances, a change			temperature to drop.
in temperature is observed.			
6. When you mix	Change in		Fireworks
substances together or light it on	energy		
fire, it produces light .			