Name:	Teacher:	Pd	Date:	_
	CTAAD Calamaa Tarka	-1-1-00		

STAAR Science Tutorial 08 TEK 8.5E: Chemical Reactions

TEK 8.5E: Investigate how evidence of chemical reactions indicates that new substances with different properties are formed.

Evidence of Chemical Reactions

- In a chemical reaction, the only absolute evidence of the chemical change is the creation of a new substance.
- There are a number of other possible signs of a chemical reaction, including:
 - change of temperature;
 - change in color;
 - release of a gas;
 - formation of a precipitate (insoluble powder) in a solution;
 - creation of light; or
 - change in taste or smell.
- In each of the following chemical reactions, the evidence of the reaction is listed:
 - Baking Soda / Vinegar: creation of gas, decrease in temperature.
 - Acid / Metal: creation of gas, increase in temperature.
 - <u>Burning Wood</u>: creation of light, increase in temperature, creation of gas.
 - <u>Spoiling Food</u>: change in taste and smell, creation of gas, change in color.
 - Cooking Food: change in taste and smell, change in color.
 - Firefly Light: creation of light, change in color.
 - Rusting Iron or Tarnishing Metal: change in color.

Practice Problems

In	each of	the	following	examples,	state	whether	the	change	is	physical	or	chemic	al:
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1.	Chopping wood:
2.	Burning paper:
3.	Boiling water:
4.	Tarnishing metal:
5.	Spoiling milk:
6.	Cooking food:
7.	Tearing paper:
8.	Digesting food:
9.	Melting ice: