

Name: _____

Date: _____

Chemistry End of Unit Assignment

As the chemistry unit comes to a close, you will complete an end of unit assignment to show your understanding of certain concepts.

TASK: Chemical Reactions Around Us

Objectives:

- To investigate chemical reactions that occur around us on a daily basis
- To write word and chemical equations for common chemical reactions

Instructions:

- 1) Choose 1 (one) of the chemical reactions listed.
- 2) Perform some research on this reaction using the library and/or the internet. Fill in the "Chemical Reactions Organizer" provided to get all the information you need.
- 3) Display your information in a manner of your choice. Some ideas are making a poster board, a pamphlet, or a power point

Evaluation:

Checklist	Criteria	Marks
	1. Correct word equation and chemical equation (A)	0 1 2 3 4
	2. Use/harm/importance clearly described - at least 3 points (A)	0 1 2 3
	3. Interesting Facts - at least 2 points (A)	0 1 2
	4. Type of reaction identified correctly (A)	0 1
	5. Clear title (C)	0 1
	6. Sources listed - at least 2 (C)	0 1
	7. Presented neatly in a logical order, no spelling/grammar errors (C)	0 1 2
	8. Presented in an interesting manner, use of colour, design etc.	0 1 2
	TOTAL: Application (A)	/10
	Communication (C)	/6

Chemical Reactions to Choose From:

- formation of tarnish on silver (the reason it needs to be polished!)
- formation of calcium kidney stones in the kidneys
- the formation of fizz in your pop
- heartburn - neutralization of stomach acid using antacids
- formation of green "stuff" copper pennies and copper roofs
- fermentation – production of alcohol from sugar
- making quick lime (for mortar, plaster) from calcium carbonate
- Haber process – production of ammonia for fertilizers and other stuff
- inflation of airbags
- use of catalytic converter in cars
- caramelizing sugar
- why bread rises (or, why your cake is fluffy)

Chemical Reactions Organizer

Title:
Word Equation for Reaction:
Chemical Equation for Reaction:
Type of Reaction:
Why is this reaction important? How are the products of the reaction useful or harmful? (at least 3 points)
Other Interesting Information: (at least 2 points)
Sources: (at least 2)