

## Science 9-Chemistry

Worksheet 2-1Some Common Chemical Reactions

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Name _____
Due Date _____
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*Read pages 28-30 in the Science 9 Probe Textbook and answer the following questions:*

1. Describe three chemical reactions that could have happened around you between the time you got up this morning and this science class.
  1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_
  
2. The glucose (and other materials) in your food reacts with \_\_\_\_\_ from the air and this provides you with energy.
  
3. What is meant by **corrosion**? \_\_\_\_\_  
 \_\_\_\_\_
  
4. Name some things for which **corrosion** is a problem. \_\_\_\_\_  
 \_\_\_\_\_
  
5. Why is corrosion a big problem for ships in the ocean? \_\_\_\_\_  
 \_\_\_\_\_
  
6. Since **oxygen** from the air helps to corrode metals, the surfaces are often \_\_\_\_\_  
 \_\_\_\_\_ to protect the metal from the air.

7. Explain how **attaching a reactive metal** to the side of a ship or boat protects the metal the ship or boat is made of.

8. Name two **reactive metals** that are sometimes attached to ships and boats.

\_\_\_\_\_ and \_\_\_\_\_

9. What causes a piece of aluminum to turn dull after being in the air for awhile? \_\_\_\_\_

\_\_\_\_\_

10. Explain why aluminum devices like shovels, ladders, snowshoes and outdoor furniture **do not corrode** or rust like iron (steel) objects.

11. Define **combustion**.

Is combustion a **chemical reaction**? \_\_\_\_\_

How do you know?

12. Name as many materials as you can that will undergo **combustion**.

13. Give some examples of situations where we might want to **speed up** combustion reactions.

14. Give some examples of situations where we might want to **slow down** combustion reactions.

15. Air is about \_\_\_\_\_% oxygen. What happens to the rate of combustion in pure oxygen? \_\_\_\_\_

Is oxygen flammable? \_\_\_\_\_ Does oxygen support combustion? \_\_\_\_\_