



Name: \_\_\_\_\_ Date: \_\_\_\_\_ Hr.: \_\_\_\_\_

## Making Sense of the Chemistry Jigsaw Puzzle

**Directions:** Use the modern Periodic Table of Elements to determine the unknown substances of your jigsaw puzzle.

### Data Table:

Unknown	Claim	Evidence	Reasoning	Family
1				
2				
3				
4				
5				
6				
7				
8				
9				

### Analysis:

- 1) What do you notice about the alkali metal's reactivity with water as you move down the column?
- 2) What properties do alkaline earth metals have in common?

- 3) Describe the properties of magnesium.
  
  
  
  
  
  
  
  
  
  
- 4) Describe the properties of oxygen.
  
  
  
  
  
  
  
  
  
  
- 5) What properties do the halogens have in common?
  
  
  
  
  
  
  
  
  
  
- 6) When magnesium is added to hydrochloric acid, it results in a violent reaction. Describe what you believe are the properties of hydrochloric acid. Explain what made you think of these properties.
  
  
  
  
  
  
  
  
  
  
- 7) When magnesium is added to water, it results in no reaction. Describe what you believe are the properties of water. Explain what made you think of these properties.