



Lab questions:

Watch the 7 reaction videos listed below carefully. Take notes on what you observe in each reaction. Then, use your observations to fill in the table and answer the follow-up questions.

1. Lead (II) nitrate react with potassium iodide  
<https://www.youtube.com/watch?v=diW7q7RFJBM>
2. Copper (II) sulphate reacts with sodium hydroxide  
<https://www.youtube.com/watch?v=G-o2zF1Kbxo>
3. Copper (II) chloride reacts with aluminum  
<https://www.youtube.com/watch?v=1tqguW2QT2E>
4. Calcium chloride reacts with sodium carbonate  
<https://www.youtube.com/watch?v=xFUGAW83HHA>
5. Hydrochloric acid reacts with magnesium:  
<https://www.youtube.com/watch?v=zOApYYsSiRw>
6. Heat of Copper (II) carbonate  
<https://www.youtube.com/watch?v=Ch1tZ0kxE0>
7. a) Bleach mix with peroxide  
b) Aluminum reacts with hydrochloric acid  
c) Hydrogen gas reacts with oxygen gas with heat  
<https://www.youtube.com/watch?v=VmTZcNVzp7A>

Table 1: Observations (36 marks)

Reaction #	Name and chemical formula of reactants	Observations	Name and chemical formula of products
1			

2			
3			
4			
5			

6			
7a)			
7b)			
7c)			

Table 2: Chemical reactions (18 marks)

For each reaction, write a balanced chemical equation to describe the chemical reaction that occurred. Be sure to write the formulas correctly first and then balance the equation. Finally classify the type of reaction that you observed as either synthesis, decomposition, single displacement or double displacement.

Reaction #	Balanced chemical equation	Reaction type
1		
2		
3		
4		
5		

6		
7a)		
7b)		
7c)		

Reflection (2 marks): After completing this lab assignment, which part did you find the most challenging? What would you do to improve your understanding?