



High School Science Virtual Learning

College Chemistry

Properties of Materials, Continued

May 5, 2020



High School College Chemistry
Lesson: May 5, 2020

Objective/Learning Target:

Students will complete the virtual lab over metal reactivity.



Let's Get Started:

1. What would happen if you put aluminum in CuCl_2 solution?
2. What would happen if you put copper in AlCl_3 solution?

Let's Get Started: **Answer Key**

1. What would happen if you put aluminum in CuCl_2 solution? **The copper would be displaced, ending up as a pure metal. The aluminum would form aluminum chloride, which would dissolve into the water.**
2. What would happen if you put copper in AlCl_3 solution? **No reaction, because aluminum is more reactive than copper, so it will stay in solution.**



Lesson Activity:

Directions:

1. Check your lab worksheet against this [answer key](#).
2. Watch this [reaction series video](#), and this [explanation](#) of how it relates to single displacement reactions.



Practice

Complete the following questions using the information you learned during the lesson activity.

Questions:

For each of the following, state which element is replaced or if there will be no reaction.

1. Gold + Iron (II) Chloride
2. Tin + Hydrochloric Acid
3. Aluminum + Magnesium Sulfate
4. Carbon + AgNO_3
5. Lead + Gold (III) Chloride



Once you have completed the practice questions check with the **answer** key.

1. **No reaction**
2. **Hydrogen**
3. **No reaction**
4. **Silver**
5. **Gold**



Additional Practice:

This [worksheet](#) has the reactivity series included, and the answer key is at the very bottom.