

## High School Science Virtual Learning

# Chemistry Gram-Liter Stoichiometry April 17, 2020



High School Chemistry Lesson: April 17, 2020

Objective/Learning Target:
Students will be able to convert between liters and grams of different substances in a chemical reaction.



#### Let's Get Started:

$$3CuCl_2 + 2 Al \rightarrow 2 AlCl_3 + 3Cu$$

 $3\text{CuCl}_2 + 2 \text{ Al} \rightarrow 2 \text{ AlCl}_3 + 3\text{Cu}$ 1. How many grams of aluminum are required to make 5.24 grams of copper?

2. 13.2 grams of copper (II) chloride reacted. How many moles of aluminum chloride can be produced?



### Let's Get Started: Answer Key



# Lesson Activity: Directions:

1. Watch this <u>video</u>, and take notes over the examples.



## Practice

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



## Questions: $Na_2CO_3 + 2HCl \rightarrow H_2O + CO_2 + 2NaCl$

- 1. If 9.72 grams of sodium carbonate reacted, how many liters of carbon dioxide could be produced at STP?
- 2. How many grams of NaCl were produced, if 0.732 L of CO<sub>2</sub> were produced at STP?
- 3. What is the mass of 0.238 moles of hydrochloric acid?



Once you have completed the practice questions check with

the answer key.



#### **More Practice:**

Follow the links below to do more practice.

- 1. Worksheet with answer key.
- 2. Only do Questions 1-9 on this worksheet.



# Additional Practice: Click on this <u>link</u> for additional practice.