

# Chemical Reactions and Equations

## Summary

With this experiment, students will identify evidence of chemical reactions and demonstrate how chemical equations are used to describe them.

## Main Core Tie

Science - Chemistry

[Standard 4 Objective 1](#)

## Time Frame

1 class periods of 60 minutes each

## Group Size

Small Groups

## Materials

- [station procedures](#)  
(attached)
- [student procedures sheet](#)  
(attached)
- safety goggles
- crucible
- burner
- ring stand and ring
- clay triangle
- forceps
- glass tubing
- spatula
- 2 large test tubes
- medium test tube
- one hole stopper
- test tube holder
- utility clamp
- wood splint
- lighter

## Student Prior Knowledge

Students should know what types of evidence of chemical reactions are, know what products and reactants are, be able to balance chemical equations and understand what molar proportions are in a balanced chemical equation.

## Instructional Procedures

Run off student sheets and station procedures. Laminate the Station Procedures if desired. Explain to students that their group will choose a station to start at and rotate to each station during the lab. Remind students that safety goggles must be worn for this experiment.

Ask students to read through entire set of procedures at each station, then on their worksheet fill in the title, purpose, safety precautions, and description of exercise before proceeding.

### Bibliography

Lesson Design by Jordan School District Teachers and Staff.

### Authors

[Utah LessonPlans](#)