

# Oxidation-Reduction Reactions

## Summary

Students will design an experiment that enables them to decide which metals will displace each other from solution and displace hydrogen from an acid.

## Time Frame

1 class periods of 90 minutes each

## Group Size

Pairs

## Materials

- [student instructions/worksheet](#)  
(attached)
- strips of copper, magnesium and zinc metals
- sand paper of cleaning the metal strips
- 1 M solutions of  $\text{Cu}(\text{NO}_3)_2$ ,  $\text{Mg}(\text{NO}_3)_2$ ,  $\text{Zn}(\text{NO}_3)_2$ ,  $\text{HCl}$
- hand lens

## Instructional Procedures

Prepare the solutions ahead of time.

Read the instructions on the student instruction/worksheet (attached) with students and define terms if needed.

Allow students time to work

Ask students to share their findings with the class.

## Bibliography

Lesson Design by Jordan School District Teachers and Staff.

## Authors

[Utah LessonPlans](#)