

Hotter All the Time

Summary

Students will establish the degree of temperature change for a reaction and then change the concentration of one reactant.

Time Frame

1 class periods of 90 minutes each

Group Size

Pairs

Materials

- [student instructions and worksheet](#)
(attached)
- graduated cylinder
- CuCl₂
- aluminum foil
- thermometer
- insulating material (paper towels, packaging materials)
- rubber bands

Background for Teachers

Safety considerations:

Safety glass, normal lab safety with chemicals

Instructional Procedures

Students may need to be reminded how to make molar solutions.

The calculations for q can be omitted if desired.

Solutions may be premixed to save time.

All other instructions and procedures are on the student instructions and worksheet attached.

Bibliography

Lesson Design by Jordan School District Teachers and Staff.

Authors

[Utah LessonPlans](#)