

# Expansion and Contraction of Materials

## Summary

Using bimetal strips and Ball & Ring show how materials expand and contract with heat.

## Main Core Tie

SEEd - Grade 6

[Strand 6.2: ENERGY AFFECTS MATTER Standard 6.2.3](#)

## Time Frame

1 class periods of 45 minutes each

## Group Size

Large Groups

## Materials

- bimetal strips
- ball & ring
- heat Source (Bunsen burner, alcohol lamp or hot water)
- ice Water
- [worksheet](#)

## Student Prior Knowledge

All matter is made of particles. Particles move. They move faster with more heat.

## Instructional Procedures

This can be done as a demo or as a student experiment depending upon your equipment. You could have  $\frac{1}{2}$  of the class working on the Ball & Rings and the other  $\frac{1}{2}$  using the Bimetal Strips.

## Bibliography

Lesson Design by Jordan School District Teachers and Staff.

## Authors

[Utah LessonPlans](#)