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 1/2 of the class working on the Ball & Rings and the other 1/2 using the Bimetal Strips.

Bibliography
Lesson Design by Jordan School District Teachers and Staff.

Authors
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