



Matter

Grade Levels	Program Length
2, 3, 4, 5, 6	Approximately 45 minutes

Science Presentations

Science Presentations are designed to help illustrate and elaborate science concepts taught in the classroom and to stimulate student interest in the subject matter.

Description

Through experimentation and audience participation, students will be intrigued by this investigation of matter. They will learn to understand the meaning of "matter," and will also participate in exciting demonstrations about atoms, molecules, states of matter, and expansion and contraction. They will see matter dramatically expand and contract before their very eyes!

North Carolina Essential Standards Correlation

2nd Grade	2.P.2
3rd Grade	3.P.2, 3.P.3
5th Grade	5.P.3
6th Grade	6.P.2, 6.P.3.3

Objectives

- 1) Students will define matter as something that takes up space and has weight / mass
- 2) Prove that solids, liquids and gases are all matter based on this definition
- 3) Compare these three states of matter based on their properties
- 4) See how matter can change its state using temperature and chemistry
- 5) Discover how heat affects matter in terms of expansion and contraction
- 6) Explore the differences between physical and chemical changes

Vocabulary

atom	gas	melt
boil	gram	molecule
chemistry	H ₂ O	oxygen
chemical change	hydrogen	physical change
condensation	liquid	plasma
contract	mass	solid
evaporation	matter	weight
expand		