

NATIONAL SCIENCE EDUCATION STANDARDS

Exploring Matter with TOYS: Using and Understanding the Senses

GRADE	CATEGORY	SUB-CATEGORY	STANDARD
K-4	Physical Science	Light, Heat, Electricity, and Magnetism	Heat can be produced in many ways, such as burning, rubbing, or mixing one substance with another. Heat can move from one object to another by conduction.
K-4	Physical Science	Position and Motion of Objects	Sound is produced by vibrating objects. The pitch of the sound can be varied by changing the rate of vibration.
K-4	Physical Science	Properties of Objects and Materials	Materials can exist in different states- solid, liquid, and gas. Some common materials such as water, can be changed from one state to another by heating or cooling.
K-4	Physical Science	Properties of Objects and Materials	Objects are made of one or more materials, such as paper, wood, and metal. Objects can be described by the properties of the materials from which they are made, and those properties can be used to separate or sort a group of objects or materials.
K-4	Physical Science	Properties of Objects and Materials	Objects have many observable properties, including size, weight, shape, color, temperature, and the ability to react with other substances. Those properties can be measured using tools, such as rulers, balances, and thermometers.
K-4	Science as Inquiry	Abilities Necessary To Do Scientific Inquiry	Ask a question about objects, organisms, and events in the environment.
K-4	Science as Inquiry	Abilities Necessary To Do Scientific Inquiry	Communicate investigations and explanations.
K-4	Science as Inquiry	Abilities Necessary To Do Scientific Inquiry	Employ simple equipment and tools to gather data and extend the senses.
K-4	Science as Inquiry	Abilities Necessary To Do Scientific Inquiry	Plan and conduct a simple investigation.
K-4	Science as Inquiry	Abilities Necessary To Do Scientific Inquiry	Use data to construct a reasonable explanation.