



LHS GEMS Matter: Solids, Liquids, and Gases

Provided by:

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Information	Program Description
1st-3rd Grade (can be adapted for younger students)	"Matter" challenges students to think critically, and to gather and apply evidence to expand their knowledge of the three states of matter: solid, liquid and gas.
Curriculum Format	Each lesson can be presented in 45-60 minutes. Teaching Guide with complete instructions is provided. Teaching Kit with materials needed to present lessons is provided. User may need to provide standard classroom supplies (pencils, scissors, glue). If a lesson requires perishable items (e.g. milk), user is responsible for these purchases.

Lesson	Overview
One: Solids and Liquids	Students will be introduced to the scientific process, learn the definitions of solids and liquids, and classify objects as being solids or liquids.
Two: Collecting Solids and Liquids	Students will collect samples of various materials and then use evidence to decide whether they are a liquid or solid.
Three: Challenging Substances	Students will build thinking and discussion skills while determining whether substances such as powder and sand are solids or liquids.
Four: What's the Matter?	Students will define the term "matter" and use spring scales to find the mass of various objects.
Five: How Do We Know Gases Exist?	Students will use critical thinking skills to present evidence that gases do exist. During part of the activity, students will move to different "gas stations" throughout the classroom to explore the different properties of gases.

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