

**Project FOCUS
Best Lessons
SECOND GRADE**

Title of Lesson: Alka Seltzer States of Matter

Theme: Physical Science

Unit Number: 1 **Unit Title:** Properties of Matter

Performance Standard(s) Covered (enter codes):

S2P1

S2CS4a

S2CS4b

Enduring Standards (objectives of activity):

Habits of Mind

- Asks questions
- Uses numbers to quantify
- Works in a group
- Uses tools to measure and view
- Looks at how parts of things are needed
- Describes and compares using physical attributes
- Observes using senses
- Draws and describes observations

Content (key terms and topics covered):

- Essential addressed: What are the properties of matter?
- Enduring understandings and key terms: The properties of matter are observable and usually exist in one of three forms: solid, liquid, or gas.
- Key terms: solid, liquid, gas, matter, property
- Skills: Observe, predict, and describe the changes that were applied to matter.

Learning Activity (Description in Steps)

Abstract (limit 100 characters): This activity provides a greater understanding of the three states of matter.

Details:

Introduction:

The introduction of this lesson should initially introduce the definition of Matter. After that, the children should give different examples. Once the central idea of matter is understood then incorporate the three types of matter into the lesson and attempt to explain them with words.

Procedure:

This activity can be done in groups or as a class. Each child was given a zip lock bag that was already filled with water and an Alka-Seltzer pill. Before completing the activity, each child was instructed to record their hypothesis/prediction and what each step of the experiment related to as a property of matter. Then, experiment was carried out. The children were asked to distinguish the solid (Alka-Seltzer pill) from the liquid (water) from the gas (Alka-

Seltzer pill dispersed into water forms the gas). Each child had to determine whether his or her results matched up with his or her predictions.

Safety:

Do not put the materials near or in your mouth.

Questions:

- What state of matter is the water in?
- What state of matter is the Alka-Seltzer pill?
- What state of matter is formed by the mixture of Alka-Seltzer pill and water?

Materials Needed (Type and Quantity):

- Zip lock Bags
- Alka-Seltzer Pills
- Water
- Time Required: 30 minutes

Notes and Tips (suggested changes, alternative methods, cautions):

Sources/References:

- 1)
- 2)
- 3)