

DAILY LESSON PLAN – Molecules and More!

Name: Marilyn Schmid

Date: 3-26-14

Grade Level: 1st

Unit Topic (Science): Water's the Matter!

Lesson Focus: Lesson 9: Molecules and More!

Standard/Benchmark/Objectives:

GLCEs (Grade Level Content Expectations)

P.P.M.E.2 States of Matter- Matter exists in several different states: solids, liquids and gases. Each state of matter has unique physical properties. Gases are easily compressed but liquids and solids do not compress easily. Solids have their own particular shapes, but liquids and gases take the shape of the container.

Motivation/Assessing Prior Knowledge:

- As our science unit is nearing its end, Mrs. Kurzawa's fourth grade class will be joining our first graders for some *Matter* activities. The fourth graders have already finished their *Matter* unit and will be partnering up to mentor our first graders.
- First graders will have one minute to teach Mrs. Kurzawa's fourth graders our *States of Matter Song*.
- We will sing the *States of Matter Song* together.

Learning Activities/Assessments: (at seats or spread out on floor) (materials needed: States of Matter sort cards—14 sets; 28 States of Matter--Water worksheets; 14 small paper plates; 28 Q-tips; white glue; 28 cupcake papers; Cheerios)

1. With their Milk & Cookie partners and fourth grade buddies, students will sort picture cards of solids, liquids, and gasses into the three matter states. Students can sit in their seats or on the floor.
(Assessment will occur by observing completed sorts.)
2. Students will watch the *States of Matter Rap* on video (3.39 minutes):
https://www.youtube.com/watch?v=cBBmdqti_Kg.
We will have a brief discussion about **molecules** . . .
 - Solids – molecules are tightly packed together; they stick together; solids don't change shape
 - Liquids—molecules are sliding around; liquids flow, taking the shape of the container
 - Gases—molecules are moving freely and are spreading further apart; gases take the shape of the container

Ask . . .

How do we get from one state of matter to the next?

Heat is being added or taken away!

Why does the molecule movement speed up or slow down?

Heat is being added or taken away!

(Assessment occurs by listening to student responses and observing student participation.)

3. Explain directions to the *States of Matter--Water* worksheet. Students will glue Cheerios onto the pictures to represent molecules. (solid/ice: molecules are tight and Cheerios will be glued close together; liquid/water: molecules are loosening up and the Cheerios will be spread out a little more; gas/steam: molecules are moving about freely and the Cheerios will be spread further apart) Students do this activity with their fourth grade buddies. When finished, they should leave their papers on their desks to dry.

When dry, papers will be placed into their *My Matter* books.

(Assessment will occur by observing completed worksheets.)

Closure:

We will thank Mrs. Kurzawa's class for working with us today and sing them off with our *States of Matter Song*.

Reflections: