

DAILY LESSON PLAN – Changing States of Matter

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Date: 3-18-14 – 3-20-14

Grade Level: 1st

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

Lesson Focus: Lesson 7: Changing States of Matter

Standard/Benchmark/Objectives:

GLCEs (Grade Level Content Expectations)

S.IP.E.1 Inquiry involves generating questions, conducting investigations, and developing solutions to problems through reasoning and observation.

S.IP.01.11 Make purposeful observation of the natural world using the appropriate senses.

S.IP.01.12 Generate questions based on observations.

S.IP.01.13 Plan and conduct simple investigations.

P.PM.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: (sitting in a circle on the floor) (materials needed: electric frying pan, extension cord, 3 ice cubes)

- Plug in and turn on the electric frying pan and place in the center of the circle, making sure that all students have a safe distance from the frying pan. Place the 3 ice cubes into the pan.
- Ask students . . . What do you predict is going to happen to the ice? **It will melt; it will turn into water; it will become a liquid**
- While the pan is still plugged in, read the poem, *Snowball*. Ask students . . . What happened to the snowman? **The snowman melted; the snow (solid) turned into water (liquid); the matter changed from a solid to a liquid**
- *Does this remind you of anything else that we have seen recently in science?* **When our ice cubes changed into water in our baggies; when our frozen balloon ice ball turned into water**
- *Why did this happen?* **heat was added to the ice (solid), turning it into water (liquid)**
- *What's happening now in our pan?* By now, the ice should have melted. **Just like the snowman, the ice (solid) turned into water (liquid) because of the heat being added.**

- Leaving the pan on, now read the laminated *Matter Can Change! and It's a Gas!* cards and discuss.
- Sing *States of Matter Song*.
- *What's happening now in our pan? Students should see now that that the water (liquid) is turning into steam (gas) and spreading out in the air*
- *What caused the water to turn into a gas? the added heat!*
(Assessment occurs by listening to student answers and observing participation.)

Learning Activities/Assessments/Closure: (at seats) (materials needed: 26 copies of Changing States of Matter worksheet)

- Explain directions to the Changing States of Matter worksheet.
- Tell students that when they finish their worksheet, they should raise their hands and a teacher will come over to check it. Once checked, students may color.
- When completed, they will then turn it in on the round table to be placed in their Matter books.
(Assessment will occur by observing completed worksheets.)

Reflections: