Grade 2	Science	Week 7

Lesson Title: Solids, Liquids, and Gases

Weekly Learning Targets: Students can classify different kinds of materials by their observable properties.

Vocabulary: solid, liquid, gas, size, shape, container, properties

Next Generation Science Standards

2.PS1.1 – Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.

2.PS1.2 – Analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose.

K.2.ETS1.3 – Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs.

MONDAY

Daily Learning Target: Students can define properties for all matter and different kinds of matter.

Learning Tasks: To begin, the class can review the anchor chart that they created last week. (SM A) Then, the teacher can explain the upcoming week to the students. First, the class can view this slideshow to go over the different properties of each state of matter. (SM B) Then, the teacher can cut out flashcards of different states of matter and ask the student to sort them into the proper group: solid, liquid, or gas. Following that, the students can record the properties that these items share.

Daily Formative Assessment: The teacher can check to make sure the flashcards are sorted into the correct group.

TUESDAY

Daily Learning Target: Students can observe the different properties of different objects.

Learning Tasks: NOTE: This lesson is based on Lesson 2. (SM C) To begin the class, the teacher can review the properties that the students have learned. Then, the teacher can model for the students how to use a hands lens. Following that, the class can come up with words to describe the properties of color, texture, and shape. Then, the teacher will give groups hands lens and items like a cotton ball, sand paper, pencil, and feather. The students will use the hands lend and record the properties of color, flexibility, shape, and texture for each object. The class can then discuss their results.

Daily Formative Assessment: The teacher can give feedback on their recording sheets.

WEDNESDAY

Daily Learning Target: Students can compare and contrast materials and their properties.

Learning Tasks: The class can review the previous day's lesson. Then, the teacher can share that they will compare and contrast the properties of two objects, a cotton ball and a marble. The teacher will review with the students how to use a Venn diagram and create one on the board. Then, the class will compare and contrast the properties of a cotton ball and marble together. Following that, the students can find two other items to compare in a new Venn diagram. The students should write down what they observed.

Daily Formative Assessment: The teacher can check the students' Venn diagrams.

THURSDAY

Daily Learning Target: Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.

Learning Tasks: NOTE: This lesson is adapted from the following lesson. (SM D) After reviewing yesterday's lesson, the teacher can distribute this handout to the students. (SM E) To begin, the teacher can ask the students how could you test matter to prove it is a liquid or solid. After discussing and writing methods on the board, the teacher can explain how they will test out mystery matter, oobleck, to determine if it is a solid or liquid. The

teacher can show them oobleck and have students create a hypothesis about whether it is a solid or liquid. Then, the class can discuss different ways to test the matter in partners and as a class. Then, the students can perform their tests and record their results. The students will then write a conclusion with evidence to support their answers.
Daily Formative Assessment: The teacher can check the students' handout.

FRIDAY

Daily Learning Target: Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.
Learning Tasks: The students can review and share their conclusions with the class from yesterday's activity. Then, students will do an observable properties scavenger hunt. (page 27 SM C) The students will try to locate objects in the classroom that exhibit all of the state properties like red, thin, flexible. After completing the scavenger hunt. Students will be given different scenarios (page 22 SM C), and they must choose the best materials to solve the problem. They should state what properties these materials have and their reasoning for wanting to use them.
Daily Formative Assessment: The teacher can check the students' scavenger hunt findings.

Grade 2 – Science – Week 7	**MATERIALS / RESOURCES**

pencil, science journal, hand lens, different objects with varying properties, cotton ball, marble, Venn diagram

A – States of Matter Anchor Chart - http://littlemisshoodsadventuresinkindergart.blogspot.com/2013/07/states-of-matter.html

B – Properties of Matter Slideshow - https://www.teacherspayteachers.com/FreeDownload/Sorting-Matter--194030

C – Lesson 2 - http://www.mccracken.kyschools.us/Downloads/2%20NGSS%20UNIT%20Matter.pdf

D - Mystery Matter - https://betterlesson.com/lesson/638709/mystery-matter

E – Mystery Matter Lab Handout - https://betterlesson.com/lesson/resource/3216495/mystery-matter-lab

Additional Resources

Describing Properties Poster - https://www.teacherspayteachers.com/Product/I-Can-Describe-Properties-Of-An-Object-901175

Properties Unit - https://www.sciencea-z.com/main/Download/resource/saz/id/1206/unitId/50/format/single

Properties of Matter Resource Guide - http://www.mccracken.kyschools.us/Downloads/2%20NGSS%20UNIT%20Matter.pdf