

Grade 2	Science	Week 5
Lesson Title: What are some properties of matter?		
Weekly Learning Targets: Students can define and state some properties of matter.		
<p>Next Generation Science Standards</p> <p>2.PS1.1 – Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.</p> <p>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.</p> <p>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.</p>		
<p style="text-align: center;">MONDAY</p> <p>Daily Learning Target: Students can define the term matter.</p> <p>Learning Tasks: Note: This lesson plan was derived from the following lesson plan. (SM A) The teacher can display three objects and ask the students what they are. The teacher can say they are also matter and ask students what matter is using a Turn and Talk. The teacher can pass the objects around and ask students what they notice. The teacher can then record their responses on this Defining Matter Chart (SM B). One side is for properties of matter and one side is for things that are not properties of matter. After making a rough definition, the teacher can give students pictures (SM C) to sort into things that are matter and are not matter. After sorting, the class can discuss their answers. Finally, the teacher can summarize what matter is for the students, read page 17 in the textbook, and preview the next few weeks.</p> <p>Daily Formative Assessment: The teacher can check the students’ sorting activity and definitions of matter.</p> <p style="text-align: center;">TUESDAY</p> <p>Daily Learning Target: Students can define property and explain the properties of matter, weight, color and texture.</p> <p>Learning Tasks: The teacher can review the previous lesson and ask the students to define matter. After, the teacher can show students a piece of colored paper and ask them to describe it and ask the students question. Is it smooth? Is it thin? etc. The teacher can tell students that all these details about an object are called its properties. The teacher can then fold and/or rip the colored paper and ask students what properties changed and what didn’t. The teacher can record the response. Then, the teacher can read page 18 and 19 in the textbook with the students. The students and teacher can identify the three properties on the page: weight (mass), color, and texture. The teacher can explain the students will do an activity with texture. The teacher can display this texture adjective poster (SM D) and identify the words. Then, invite the students to touch a variety of objects with different textures. The students can record the textures they identify in their science journals.</p> <p>Daily Formative Assessment: The teacher can give feedback on the students’ responses in their journals.</p> <p style="text-align: center;">WEDNESDAY</p> <p>Daily Learning Target: Students can explain properties of matter, shape and size.</p> <p>Learning Tasks: The teacher can review the definition of matter and properties. The teacher can ask what properties the class has discussed so far. The teacher can then preview the next two properties, shape and size. The students can read page 20 and page 21 and complete the corresponding activities, which include identifying objects that would require a meter stick to measure and using a ruler. To extend the activity, the teacher can ask students to create a list of words to describe shape. Students can also measure a variety of objects to determine their size.</p> <p>Daily Formative Assessment: The teacher can give feedback on the students’ responses on page 20 and 21.</p>		

THURSDAY

Daily Learning Target: Students can explain a property of matter, density (sink or float).

Learning Tasks: The teacher can review the definition of matter and properties. The teacher can ask what properties the class has discussed so far. The teacher can then preview the next property, density. The students can read page 22 and complete the activities involving guessing what will sink or float. The teacher can then perform a demonstration with the students. (SM E) The teacher can prepare different liquids with different densities of the same volume (size). The teacher will ask the students where they think each liquid will end up and make a prediction on their worksheet. The teacher will then pour each liquid one at a time into the same clear container. The students will record the results and discuss. The teacher can again define density as a property of matter.

Daily Formative Assessment: The teacher can give feedback on page 22 or the students' experiment record.

FRIDAY

Daily Learning Target: Students can explain a property of matter, temperature.

Learning Tasks: The teacher can review the definition of matter and properties. The teacher can ask what properties the class has discussed so far. The teacher can then preview the next property, temperature. The students and teacher can read page 23 in the textbook and complete the activities on the page. After, the teacher can distribute a thermometer to pairs of students. Explain how to read a thermometer and the information it provides. Students can then practice taking a temperature reading with the thermometer. At the end of class, the teacher can ask the students what they learned about matter and the properties of matter this week.

Daily Formative Assessment: The teacher can give feedback on the students' writing.

Grade 2 – Science – Week 5	MATERIALS / RESOURCES
<p>pencil, variety of objects to compare, colored paper, objects with different textures, science journals, ruler, meterstick, liquids with differing density, clear container, thermometer</p> <p>A – What Does It Matter? Lesson Plan - https://betterlesson.com/lesson/634511/what-does-it-matter?from=master_teacher_curriculum</p> <p>B – Defining Matter Chart - https://betterlesson.com/lesson/resource/3187068/defining-matter-chart</p> <p>C – Matter Pictures - https://betterlesson.com/lesson/resource/3174839/matter-pictures</p> <p>D – Texture Adjective Poster - https://www.twinkl.co.uk/resource/t-t-2251-materials-textures-adjectives</p> <p>E – Density Experiment - https://www.teacherspayteachers.com/Product/Density-Experiment-1693316</p> <p>Additional Resources</p> <p>Describing Properties Poster - https://www.teacherspayteachers.com/Product/I-Can-Describe-Properties-Of-An-Object-901175?</p> <p>Properties Unit - https://www.sciencea-z.com/main/Download/resource/saz/id/1206/unitId/50/format/single</p> <p>Properties of Matter Resource Guide - http://www.mccracken.kyschools.us/Downloads/2%20NGSS%20UNIT%20Matter.pdf</p>	