

Grade 4	Science	Week 4
<b>Lesson Title:</b> Forms of Energy		
<b>Weekly Learning Targets:</b> Students can define energy and investigate different forms of energy		
<b>Next Generation Science Standards</b> <b>4.PS3.2</b> – Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.		
<p style="text-align: center;"><b>MONDAY</b></p> <p><b>Daily Learning Target:</b> Students can define and explain energy.</p> <p><b>Learning Tasks:</b> <b>Note:</b> This lesson plan was derived from the following lesson plan. (SM A) To begin, the teacher can ask students to complete tasks without moving their bodies. Then, the teacher can explain that they couldn't do it because they didn't use their energy. Energy is the ability to cause motion or create change. Then, the students can complete the tasks using their energy. After, the students can respond to the following prompts and place them in their science journals. After discussing, the students can read and complete page 9 in their textbook about energy. Then, students can complete the stations where they have to guess the type of energy used by each object (SM B). The teacher can display an anchor chart with the different types of energy. (SM B)</p> <p><b>Daily Formative Assessment:</b> The teacher can check the students' prompts and page 9 in their textbook.</p> <p style="text-align: center;"><b>TUESDAY</b></p> <p><b>Daily Learning Target:</b> Students can give examples of different forms of energy.</p> <p><b>Learning Tasks:</b> The teacher can review the previous lesson and inform the students that they will learn about different forms of energy. To begin the students can watch this video about forms of energy (SM C). The students can write the forms of energy they hear and give an example of each in their science journal as they watch. After discussing the video, the students can redo the mystery energy stations (SM B) from Monday. The students can compare/switch their answers. If there is time, the teacher can recap the lesson and preview the next one.</p> <p><b>Daily Formative Assessment:</b> The teacher can give feedback in the students' science journal and on SM B.</p> <p style="text-align: center;"><b>WEDNESDAY</b></p> <p><b>Daily Learning Target:</b> Students can give examples of different forms of energy.</p> <p><b>Learning Tasks:</b> The teacher can review the learning from the previous day and ask the students for the forms of energy they learned and examples of each. Then, the students can read page 10 and 11 in their textbooks and do exercises #3-5. After that, students can complete page 12 and page 13 in the textbook where they have to find and label different forms of energy in the picture.</p> <p><b>Daily Formative Assessment:</b> The teacher can give feedback on the students' collage or work in the textbook.</p> <p style="text-align: center;"><b>THURSDAY</b></p> <p><b>Daily Learning Target:</b> Students can give examples of different forms of potential energy.</p> <p><b>Learning Tasks:</b> At the beginning of class, the teacher can review all the types of energy the students learned about. Then, the teacher can introduce today's topic of potential energy, energy that is stored. The teacher can introduce the different types in the book: gravitational, chemical, or elastic with demonstrations or pictures. Then, the students can read page 14 and 15 and complete exercises #7-11.</p> <p><b>Daily Formative Assessment:</b> The teacher can give feedback on the students' response on exercises #7-11</p> <p style="text-align: center;"><b>FRIDAY</b></p> <p><b>Daily Learning Target:</b> Students can explain different forms of energy and identify the different forms.</p> <p><b>Learning Tasks:</b> The teacher can review the various forms of energy with the students. The students can then take an assessment from page 15b in the teacher's edition or one similar to this (SM D). Finally, students can create a collage with an example of different forms of energy. This can be completed on the computer or by hand using</p>		

images from magazines or preprinted ones. The teacher can also ask students to find examples of one of the kinds of energy and make a classroom collage.

**Daily Formative Assessment:** The students can take a summative assessment.

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<p>pencil, science journal, photos of forms of energy, objects that use different forms of energy</p> <p><b>A</b> – What is Energy? - <a href="https://betterlesson.com/lesson/634329/what-is-energy-anyway">https://betterlesson.com/lesson/634329/what-is-energy-anyway</a></p> <p><b>B</b> – Energy Mystery Stations - <a href="https://www.teacherspayteachers.com/Product/Forms-of-Energy-Lab-and-Anchor-Chart-FREEBIE-NGSS-TEKS-3539942">https://www.teacherspayteachers.com/Product/Forms-of-Energy-Lab-and-Anchor-Chart-FREEBIE-NGSS-TEKS-3539942</a></p> <p><b>C</b> – Forms of Energy Video - <a href="https://www.brainpop.com/science/energy/formsofenergy/">https://www.brainpop.com/science/energy/formsofenergy/</a></p> <p><b>D</b> – Forms of Energy Assessment - <a href="http://www.cpalms.org/uploads/resources/46550/Forms_of_EnergySummative_Assessment.pdf">http://www.cpalms.org/uploads/resources/46550/Forms_of_EnergySummative_Assessment.pdf</a></p> <p><b>Additional Resources</b></p> <p>Energy Science - <a href="https://www.teacherspayteachers.com/Product/Energy-Science-823866">https://www.teacherspayteachers.com/Product/Energy-Science-823866</a></p> <p>Forms of Energy Video - <a href="https://www.youtube.com/watch?v=FX7T-QYTPho">https://www.youtube.com/watch?v=FX7T-QYTPho</a></p> <p>What is Energy Video - <a href="https://www.youtube.com/watch?v=EiYVzS9Mrls&amp;vl=en">https://www.youtube.com/watch?v=EiYVzS9Mrls&amp;vl=en</a></p> <p>Energy PowerPoint - <a href="https://epicscience.net/4th/unit-4/">https://epicscience.net/4th/unit-4/</a></p>	