



# Kits for Kids Lesson Plan

**GUIDING QUESTION:** What is energy efficiency, and why is it important?

**GOAL:** Students will learn where energy comes from. They also will discover energy-efficient devices and be encouraged to install these items at home.

**OBJECTIVES:**

1. Students will be able to define energy efficiency.
2. Students will be able to explain why energy-efficient devices are important.
3. Students will commit to installing the provided energy-efficient items at home.

**Total Time: 30 minutes**

TIME	TEACHER ACTION	RESOURCES
5 min	<p><b>WARM-UP</b></p> <p><b>Goal:</b> Assess what students already know about energy and the importance of energy efficiency.</p> <ol style="list-style-type: none"> <li>1. Distribute worksheet (page 1)</li> <li>2. Allow 2 minutes for students to do independent warm-up</li> <li>3. <b>Pair Share:</b> Students turn to partners and share their answers for questions 1 and 2</li> </ol>	<p><a href="#">Worksheet</a></p> <p><a href="#">Answer key</a></p>
5 min	<p><b>INTRODUCTION</b></p> <p><b>Goal:</b> Explain where energy comes from and the importance of energy efficiency.</p> <ol style="list-style-type: none"> <li>1. Go over agenda</li> <li>2. Review warm-up by showing correct responses</li> <li>3. <b>Call and Response:</b> Students attempt to answer the question, "Where does energy come from?"</li> <li>4. Give correct answer and show slide                             <ol style="list-style-type: none"> <li>a. <b>IMPORTANT:</b> Reiterate that energy is a finite resource that needs to be conserved.</li> </ol> </li> </ol>	<p><a href="#">PowerPoint slides</a></p>

TIME	TEACHER ACTION	RESOURCES
10 min	<p><b>APPLY THE LEARNING</b></p> <p><b>Goal:</b> Students apply what they learned about energy efficiency by playing the Energy Monsters video game.</p> <ol style="list-style-type: none"> <li>1. Open video game and read instructions</li> <li>2. <b>Demonstrate:</b> Install showerhead in front of class</li> <li>3. Allow students to play the game individually or in pairs               <ol style="list-style-type: none"> <li>a. <b>IMPORTANT:</b> Push students to pay attention to the energy-saving items they are installing.</li> </ol> </li> </ol>	<p><a href="#">Energy Monsters</a></p>
5 min	<p><b>ASSESS THE LEARNING</b></p> <p><b>Goal:</b> Students understand the benefits of energy efficiency and know ways to make their home more energy efficient.</p> <ol style="list-style-type: none"> <li>1. Direct students back to the worksheet (page 2)</li> <li>2. Allow 2 minutes for students to independently do cooldown</li> <li>3. <b>Pair Share:</b> Students turn to partners and share their answers for questions 3 to 5</li> <li>4. Give correct answer and show slide               <ol style="list-style-type: none"> <li>a. <b>IMPORTANT:</b> Reiterate that energy efficiency is the use of less energy to perform the same task or produce the same result.                   <ol style="list-style-type: none"> <li>i. This can be achieved by: Using LED lightbulbs, installing water-efficient showerheads to conserve hot water, and installing faucet aerators</li> <li>ii. This is beneficial because it: Saves money on energy, reduces the amount of energy that needs to be produced, and reduces greenhouse gas emissions</li> </ol> </li> </ol> </li> </ol>	
5 min	<p><b>COMMITMENT</b></p> <p><b>Goal:</b> Students know how to install the kit and commit to returning the Proof of Installation card</p> <ol style="list-style-type: none"> <li>1. Take out kit and show its contents</li> <li>2. Explain that to receive the \$1,000, students are expected to:               <ol style="list-style-type: none"> <li>a. Take the kit home</li> <li>b. Install the energy-saving items with an adult</li> <li>c. Fill out the card with an adult</li> <li>d. Bring back the card and give it to you</li> </ol> </li> <li>3. Have students sign the commitment at the bottom of the worksheet               <ol style="list-style-type: none"> <li>a. <b>IMPORTANT:</b> Call on students to check for understanding—65% of students must bring back the signed commitment to receive \$1,000 for their classroom.</li> </ol> </li> <li>4. Hand out kits</li> </ol>	<p><a href="#">Extra cards for students</a></p> <p><a href="#">Extra cards for students – Spanish</a></p>

