

# Lesson Plan

Grade: Year 6

Teacher:

Date:

Topic	Energy we Consume	
<b>能力指標</b>	1. 綜-E-C3 體驗與欣賞在地文化，尊重關懷不同族群，理解並包容文化的多元性。 2. 綜-E-C2 理解他人感受，樂於與人互動，學習尊重他人，增進人際關係，與團隊成員合作達成團體目標。 3. 英-E-C2 積極參與課內英語文小組學習活動，培養團隊合作精神。	
<b>Lesson Objectives</b>	1. 認識能源的種類。 2. 認識太陽能源。 3. 透過觀察與實作，瞭解太陽能源在生活上之應用。	
<b>Teaching Materials</b>	1. 教學 PPT 2. 電池材料組 3. 太陽能車材料組	
<b>Key Sentence(s)</b>	These solar panels provide ___% of 僑信 total power usage.	
<b>Vocabulary Focus</b>	Countries, Energy	
<b>Teaching Materials</b>	PPT, maps. Solar panel car kits	
<b>Evaluation</b>	-----	
Teaching Steps		Time
<b>#1</b>	<b>1. Starter &amp; 5 Minute Reading:</b> Each class this semester will start with 5 minutes of free reading.	<b>5</b>
	<b>2. Introduce Lesson Concept:</b> (1) What is a solar panel? (2) How does a solar panel work? (3) How do we build a solar panel?	<b>10</b>
	<b>3. Make Solar Panel:</b> Students will receive a sheet of directions on how to make their solar panel. They will need to follow the directions to make their own panel. After the panel is finished, we will test the panels to see which group has created the most powerful panel.	<b>25</b>
	<b>4. Close:</b> (Normal closing procedure)	
<b>#2</b>	<b>1. Starter &amp; 5 Minute Reading:</b> Each class this semester will start with 5 minutes of free reading.	<b>5</b>
	<b>2. Review or Finish Solar Project:</b> Students will review the results from their solar project.	<b>5</b>

	<p><b>3. Energy Usage Around the World:</b> Students will examine the energy needs of countries around the world. Student groups will calculate how many of their home-made solar panels it would take to provide enough power to these countries.</p>	<b>20</b>
	<p><b>4. Challenges of Solar Energy Around the World:</b> Students will examine some different countries around the world and calculate how many of their solar panels it would take to power the nation.</p>	<b>10</b>
	<p><b>5. Close:</b> (Normal closing procedure)</p>	
<b>#3</b>	<p><b>1. Starter &amp; 5 Minute Reading:</b> Each class this semester will start with 5 minutes of free reading.</p>	<b>5</b>
	<p><b>2. Review the Concept of Solar Power</b></p>	<b>10</b>
	<p><b>3. Electricity Consumption VS. Power Generation :</b> students will observe the electricity consumption and power generation of 僑信 Elementary School through numerical value (monthly, 2years or more).</p>	<b>25</b>
	<p><b>4. Close:</b> (Normal closing procedure)</p>	
<b>#4</b>	<p><b>1. Starter &amp; 5 Minute Reading:</b> Each class this semester will start with 5 minutes of free reading.</p>	<b>5</b>
	<p><b>2. The Application of Solar Panels: Solar Panel Car</b> Students will be divided into few groups. They will follow the instructions to make their own solar panel car.</p>	<b>25</b>
	<p><b>3. Solar Panel Car Contest:</b> students will have a contest to find out which group owns the fastest solar panel car.</p>	<b>15</b>
	<p><b>4. Close:</b> (Normal closing procedure)</p>	