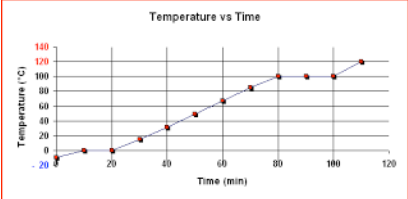


Workshop Model Lesson Plan for Middle School Science ^{SEPs}

Topic: **Thermal Energy**

Grade-Level: **6**

<p>Mini-Lesson</p> <p>10-15min</p>	<p>Teacher introduces the day's topic with a question. The question should be relevant, thought-provoking, and open-ended. *Students may be required to write the question and some of the responses Question for the day:</p> <p>If is possible to determine the temperature of a cup of water by looking at it?</p>
<p>Independent Work</p> <p>10-20min</p> <p>Which will occur first? 2nd</p>	<p>Students are assigned a task to work on alone. During this time the teacher moves about the room to assist students, as needed. Describe the task.</p> <div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>Students will be given the graph to first write down 5 things they notice, then 3 questions that could be answered from the info in the graph. They will then write a few sentences to summarize the trend shown in the graph.</p> </div> </div>
<p>Small Group Work</p> <p>10-20min</p> <p>1st</p>	<p>Students, in groups of no more than 4, are given actual materials to study a given topic. Describe the group task. Materials Needed:</p> <p>Measure 150mL of hot water into a cup. Measure 150mL of cold water into a cup. Measure the temperature of each cup of water. Add 1-drop of food color to each cup. Observe. Draw a sketch of what happens in the first 20sec of adding the food color. Write why you think this happened.</p>
<p>Sharing</p> <p>5-10min</p>	<p>Teacher guides whole class to share what they learned based on mini-lesson discussion, independent work, and small group work. Teacher clears up any misconceptions from the day. How will the day be concluded?</p> <p>What did you learn about thermal energy? How did the thermal energy in each cup differ? How was it evidenced by its reaction with the dye?</p>