| **Subject:** | Science | | **Grade:** | 5th |
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| **Date:** |  | | | |
| **STEP 1: CONTENT** | | | | |
| **Central Idea:** Energy can occur in different forms, can be transformed from one form to another, but it cannot be created or destroyed.  **SOL: 5.2c** Describe everyday examples of energy changing forms.  **Vocabulary:**  Potential Energy, Kinetic Energy, Thermal energy, Chemical energy, Elastic energy,  Radiant energy | | | | |
| **STEP 2: FORMATIVE ASSESSMENT** | | **STEP 3: LEARNER OBJECTIVE** | | |
| In one paragraph, write to describe one energy transformation in everyday life. Be sure to include the form of energy before and after the energy transformation and how it’s useful to people. | | Given a variety of stations, students will determine the energy transformations in each activity. | | |
| **PROCESS** | | | | |
| Extend activity: Energy Transformation Stations are an extension to be used after forms of energy and transformations have been taught.  Station 1: Students stretch the rubber band a few times and hold it to their forehead. stretching the rubber band gives it stored elastic energy which is transformed to thermal energy.  Station 2: Students break the glow stick and observe that it glows. Before breaking, the glow stick has stored chemical energy that transforms to radiant energy when broken.  Station 3: Students wind up the toy which gives it stored elastic energy which transforms to motion energy when it moves.  Station 4: Students blow up a balloon giving it potential elastic energy which is transformed to motion energy when it’s let go.  Station 5: Students open the hand warmer which has stored chemical energy that transforms to thermal energy when exposed to air. | | | | |