

**Energy: 4.C.1**

---

*Introduction to Energy*

|                              |  |
|------------------------------|--|
| <b>Grade Level</b>           | 4  |
| <b>Sessions</b>              | 1 – approximately 50- 60 minutes   |
| <b>Seasonality</b>           | N/A  |
| <b>Instructional Mode(s)</b> | Whole class  |
| <b>Team Size</b>             | N/A  |
| <b>WPS Benchmarks</b>        | 04.SC.PS.02<br>04.SC.PS.09   |
| <b>MA Frameworks</b>         | 3-5.PS.4<br>3-5.PS.11  |
| <b>Key Words</b>             | Energy, Heat, Magnetism, Mechanical Energy, Sound Energy, Electrical Energy, Heat Energy, Magnetic Energy, Light Energy, Electricity, Wind, Water, Wood, Food, and Natural Gas |

**Summary**

---

The students will be introduced to many different forms of energy through lecture and example. The student will then be given the opportunity to name the different types of energy that are available in their home. This lesson is meant to be delivered after the Sound Unit.

**Learning Objectives**

---

*2002 Worcester Public Schools (WPS) Benchmarks for Grade 4*

04.SC.PS.02 Identify the basic forms of energy (light, sound, heat, electrical, and magnetic). Recognize that energy is the ability to cause motion or create change.

04.SC.PS.09 Describe and model the basic structure of the atom, e.g., carbon and oxygen.

**Additional Learning Objectives**

---

1. 3-5.PS.4 Identify the basic forms of energy (light, sound, heat, electrical, and magnetic). Recognize that energy is the ability to cause motion or create change.
2. 3-5.PS.11 Recognize that sound is produced by vibrating objects and requires a medium through which to travel. Relate the rate of vibration to the pitch of the sound.

**Required Background Knowledge**

---

None