

## Be Green Series: Part 1 - Energy

Lesson Plan for Elementary Level (Grades 1-5)

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### Learning Objectives

From this lesson, students should be able to define the concept of energy; identify its common applications in their everyday lives; list sources of renewable versus nonrenewable energy; and apply energy conservation habits at home. These concepts will be conveyed through a short introductory video and interactive activities.

### Required Material

To conduct this lesson plan, the following material is required:

- Online access with audio and pdf editor (e.g. computer, tablet); printer is option if students prefer hardcopy material
- Paper
- Writing utensils

### Lesson Plan Instructions

1. Students should watch the introductory video titled Be Green Series: Part 1 - Energy, which can be found at <https://youtu.be/qWzXXUBhOH4>. The video will provide a brief overview of the concepts from the "Learning Objectives".
2. Students can now begin to apply the energy concepts from the introductory video by completing the following pages of this [Energy Efficiency Team Activity](#):
  - a. Page 2 - Super Light Secret Message
  - b. Page 3 - Energy Saving Crossword Puzzle
  - c. Page 4 - Energy Waste Colouring Page
  - d. Page 5 - Catch Energy Buzzer Maze
  - e. Page 6 - Sources of Electricity Word Search
  - f. Page 11 - What Did You Learn?
3. Students can play the Energy Pictionary game with their families based on instructions below under the "Energy Pictionary Game" section.
4. Explore the additional resources for further learning and to gain a better appreciation for these interesting energy concepts!

### Energy Pictionary Game

- *Material:* word cards (38), markers, drawing paper
- *Estimated game time:* 30-40 minutes
- *Number of players:* minimum of 2
- *List of words to guess:*
  - sun; wind; water; biomass; coal; oil; light bulb; light switch; garbage; bicycle; recycle; cooking; heating; window; door; fireplace; phone; charger; walking; climbing stairs; lifting a box; car; fossil; lake; tree; Earth; burn; garden; compost; wood; chemical energy; gas; environment; magnet; kinetic energy; windmill; solar panel; pollution
- *Time to draw/guess each word:* 40 seconds to 1 minute
- *Game Instructions:*
  - Create two teams, each with at least one player..
  - For each round, a player from one team picks a word card and draws a clue on the drawing paper to depict this word to their team member(s). Their team member(s) are to guess the word on the card based on the drawing. If the team member(s) guess correctly, that team earns a point. Their round ends and the next team takes their turn in the same way.
  - Each team's round should last about 40 seconds to 1 minute.

### Additional Resources for Further Learning

Students can explore the following additional resources to gain a deeper understanding of the energy concepts introduced in this lesson plan

- CECA Blog Post (more technical)  
<https://cecauoft.com/2020/04/22/some-interesting-information-about-electricity-generation/>
- Detailed concepts covering the entire lesson with interactive portions (grades 4-6):  
<https://www.youtube.com/watch?v=wMOpMka6PJI>
- Explanation of different types of energy: <https://www.youtube.com/watch?v=QOLBegPWzrg>
- Energy and electricity generation: <https://www.youtube.com/watch?v=haJWh9Pa-io>