

APPLICABLE TO:

- AIR
- ENERGY
- WATER
- WASTE
- TOXINS

RECOMMENDED AGE:

- ELEMENTARY SCHOOL
- MIDDLE SCHOOL
- HIGH SCHOOL
- COLLEGE

COST:

- FREE
- \$1 - \$15
- \$16 - \$50
- \$50 and more

REINFORCES:

- CRITICAL THINKING
- COMMUNICATION
- CREATIVITY
- COLLABORATION

20 MINUTE ACTIVITY: ENERGY Pictionary

OVERVIEW:

Conserving energy is important because it protects natural resources in our environment and saves money. Much of the world's energy is made by burning non-renewable resources like fossil fuels. Fossil fuels are often found beneath the habitats of great biodiversity. By saving energy and reducing the need for the burning of fossil fuels, you can help protect animal and plant habitats, while decreasing air pollution and greenhouse gas emission!

This Energy Pictionary Activity is a fun way to learn more about the different types of energy resources and actions we can take to conserve energy! The objective of this Energy Pictionary Activity is to correctly identify the energy related term/phrase from clues drawn on a piece of paper.

MATERIAL CHECKLIST

- Whiteboard/Chalkboard
- Markers
- Scrap papers
- Container
- Timer or Clock to keep time

ACTIVITY STEPS:

1. Cut recycled scrap paper into pieces and write down the energy terms/phrases. (See page 2 for terms/phrases). Fold the pieces in half and place them into a bowl or container.
2. Assign a scorekeeper, a time manager, and a dictionary aid. The scorekeeper will make sure each group is given one point for each correct answer. The time manager will keep track of time and allow only up to 1 minute per drawing. The dictionary aid will hold the list of definitions (page 4) and provide hints and information throughout the game as needed.
3. Split the remaining students into two groups and have them pick a team name.
4. Have the teams play rock/paper/scissors to see who will go first.
5. Choose one person from the first team (called the picturist) to pick a piece of paper from the container. The picturist only has ten seconds to look at the card and plan their drawing strategy. The picturist's task is to draw their chosen energy term/phrase as their team guesses what the term is (See page 3 for

- complete rules). Have the time manager let the picturist know when their ten seconds are finished.
6. The picturist's team has up to one minute to guess the correct energy term/phrase. Note, the drawing and guessing processes begin at the same time. If the team guesses correctly before their time is up, they earn the point(s). If they do not guess correctly after one minute, the other team has 10 seconds to make a guess. If the second team guesses correctly, they earn the point(s).
 7. Choose a person from the other team be the picturist and have their team guess the energy term.
 8. If the students drawing and/or their team are having trouble because they do not know the meaning of a word, the dictionary aid can help provide hints like the category, definition, or letters of a term/phrase. Ensure both teams receive the same amount of hints, such as 5 per game. If time allows, let the dictionary aid share the definition of the term after each round with the entire class.
 9. Continue until all terms/phrases are selected and all students have had the opportunity to be the drawer on each team.
 10. Once finished, the scorekeeper can tally up the points and announce the winning team.
 11. Bonus: Brainstorm with your Grades of Green Team students on other ways to reduce the use of energy. Have the dictionary aid add these ideas to the energy definitions!

TAKE ACTION:

What can you do to conserve energy? Simple actions add up to save lots of energy:

- Unplug idle electronics
- Use a power strip
- Wash clothes using cold water
- Turn off the lights
- Use energy saving light bulbs
- Turn off computers when not in use

RECOMMENDED GRADES OF GREEN ACTIVITIES:

- ⇒ Energy Audit
- ⇒ Energy Earth Tips
- ⇒ Earth Hour

EXTERNAL RESOURCES:

If you want to review or provide background information about renewable and non-renewable energy sources, check out these videos:

- ⇒ Renewable Energy: <https://www.youtube.com/watch?v=T4xKThjcKaE>
- ⇒ Fossil Fuels 101: <https://www.youtube.com/watch?v=zaXBVYr9lj0>

The following energy terms and phrases are “level 1”. If you would like to provide students with a review or background information, check out the videos and resources on the last page.

Energy	Electric Currents
Light	Natural Resources
Sun	Vampire Load
Fire	Conservation
Stars	Actions to reduce energy use (2 points each):
Lightbulb	Turn off the Lights
Flashlight	Use energy saving light bulbs
Torches	Turn off computers when not in use
Lamps	
Electricity	

Energy Pictionary Rules:

1. The picturist only has 10 seconds to look at the card and plan their drawing strategy.
2. The picturist’s team gets up to 1 minute to guess the term.
3. If the chosen team does not guess the term after 1 minute, the opposing team has 10 seconds to answer correctly and earn the point.
4. The picturist cannot talk, they can only gesture to their team members.
5. No letters or numbers can be written as part of the drawing.
6. Hints can only be provided by the Dictionary Aid. Each team gets the same amount of hints.

Level 1:

Energy is the ability to do work. Energy is neither created nor destroyed, it is all around us all the time.

Light is a type of energy that makes it possible for us to see the world around us. Our main natural light source is the sun. Other sources include fire and the stars. Manmade Sources of Light include: lightbulb, flashlight, torches, and lamps.

Electricity is a type of energy that we can create and save to use for later. We use electricity to power our homes, schools, hospitals, and any other place you can think of.

Electric Currents move energy from place to place.

Natural Resources are materials such as water, minerals, energy, and soil that people use from nature.

Vampire load is the energy used up by electronics while they are turned off but still plugged into an outlet.

Conservation means saving, protecting, or storing something so it is not all used up quickly.