

# UNDERSTAND ALTERNATIVE ENERGY

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**Subject:** Alternative Energy

**Resources:** *Gale In Context: Environmental Studies*, *Gale In Context: Middle School*, or *Gale In Context: High School*

**Grades:** 6-8, 9-12

**Activity Summary:** Using a tic-tac-toe board, students will complete three activities of their choosing to learn about alternative energy sources. Each title on the board contains a different activity. A winning board has three completed activities including the center tile.

**Learning Expectations:** Students will gain a deeper understanding of alternative energy through various research activities.

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## Procedures:

- Ensure that your students understand how to utilize and access their Gale resource prior to beginning this activity.
  - » Students will be required to access **Topic Pages** to complete their work.
  - » Consider sharing our tutorials: <https://support.gale.com/training/videos/>
- Distribute the tic-tac-toe activity to students. Make sure that you enter your **Access URL** in the gray box or share access to your Gale resource with your students at the start of this activity.
  - » Ensure you share the correct board, there are one each for *Gale In Context: Environmental Studies*, *Gale In Context: Middle School*, and *Gale In Context: High School*.
- Establish a platform where learners can collaborate as they complete their tic-tac-toe activities. Consider your **LMS**, **Google/Microsoft Drives** or other virtual tools for this purpose.
- Be available to answer student questions and provide research support.

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## Note:

Each resource (*Gale In Context: Environmental Studies*, *Gale In Context: Middle School*, and *Gale In Context: High School*) have their own boards and activity descriptions. Ensure you are using the correct content for the resource you have access to.

# UNDERSTAND ALTERNATIVE ENERGY

Make a winning tic-tac-toe board! Start with the required middle square. Then select two additional activities to complete a line. You will need to choose one type of alternative energy to focus on.

Read complete directions for each of your selected squares on the following page. When needed, access *Gale In Context: Environmental Studies* here:

When finished, turn in your complete tic-tac-board, as well as the projects you created to complete each activity.

Create a **Poster** to promote an alternative energy source

Write a **Persuasive Paper** that highlights the benefits of using your chosen alternative energy source

Develop an **Action Plan** for your town to implement this energy source

Find one news article and write a **Current Event Summary** about a successful use of this energy source in the world

**Start Here**  
Read the *Gale In Context: Environmental Studies* "Renewable Energy" topic page overview and define 5 types of renewable energy

Create a **Diagram** of how this energy source works

Write a **Letter** to your local representative about the benefits of your chosen alternative energy resource

Create a **Comic Strip** that shows your alternative energy

Create a **Pro-Con List** comparing the benefits and disadvantages of your chosen energy source

# UNDERSTAND ALTERNATIVE ENERGY

Access *Gale In Context: Environmental Studies*:

## START HERE: Read the Renewable Energy Topic Page

Within *Gale In Context: Environmental Studies*, search “Renewable Energy” to access the topic page. Click **Read More** to read the “Renewable Energy” overview. Define five types of renewable energy.

## Create a Poster

Browse the **Images**, **Newspapers**, and **Magazines** within the “Renewable Energy” topic page to get some ideas. Create a poster that includes both text and images, and provides information to spark interest in your alternative energy.

## Write a Persuasive Paper

Write a short article designed to generate interest in your cause. Include the background of your alternative energy source and why it’s beneficial.

## Develop an Action Plan

Explore the **Reference Articles** and **Newspapers** available. Using this information, develop a plan to bring your alternative energy choice to your community. Consider the cost, space, and time required to enact the technology. Also think about the number of jobs created (or lost) and workers needed.

## Write a Current Event Summary

Find a **Case Study**, **News Report**, or **Magazine Article** that reviews a current event surrounding your alternative energy. Provide a brief summary including your thoughts on how the current event impacts the technology and the environment.

## Create a Diagram

Research the science behind your alternative energy source. Draw a simple diagram showing how energy is captured, stored, and used throughout the process. In other words, how the energy gets to users.

## Write a Letter

Find the address of a local representative, it could be a city or state representative, and write them a letter about the benefits of utilizing your alternative energy. If you prefer, you can send an email with the information instead.

## Create a Comic Strip

Research how your alternative energy actually works. Draw a comic strip that includes your alternative energy be utilized in some way.

## Write a Pro-Con List

Utilize **Reference Articles** to build two lists of at least five bullet points. One list should include all the positives of your alternative energy, and one should include all the negatives.

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Read complete directions for each of your selected squares on the following page. When needed, access *Gale In Context: Middle School* here:

When finished, turn in your complete tic-tac-board, as well as the projects you created to complete each activity.

Create a **Poster** to promote an alternative energy source

Write a **Persuasive Paper** that highlights the benefits of using your chosen alternative energy source

Develop an **Action Plan** for your town to implement this energy source

Find one news article and write a **Current Event Summary** about a successful use of this energy source in the world

**Start Here**  
Read the *Gale In Context: Middle School* "Alternative Energy" topic page overview and create flash cards for the "Words to Know"

Create a **Diagram** of how this energy source works

Write a **Letter** to your local representative about the benefits of your chosen alternative energy resource

Create a **Comic Strip** that shows your alternative energy

Create a **Pro-Con List** comparing the benefits and disadvantages of your chosen energy source

# UNDERSTAND ALTERNATIVE ENERGY

*Access Gale In Context: Middle School:*

## **START HERE: Read the Renewable Energy Topic Page**

Within *Gale In Context: Middle School*, search “Alternative Energy” to access the topic page. Click Read More to read the “Alternative Energy” overview. Make flash cards for the **Words to Know**.

## **Create a Poster**

Browse the **Images, Newspapers, and Magazines** within the “Renewable Energy” topic page to get some ideas. Create a poster that includes both text and images, and provides information to spark interest in your alternative energy.

## **Write a Persuasive Paper**

Write a short article designed to generate interest in your cause. Include the background of your alternative energy source and why it’s beneficial.

## **Develop an Action Plan**

Explore the **Reference Articles** and **Newspapers** available. Using this information, develop a plan to bring your alternative energy choice to your community. Consider the cost, space, and time required to enact the technology. Also think about the number of jobs created (or lost) and workers needed.

## **Write a Current Event Summary**

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## **Create a Diagram**

Research the science behind your alternative energy source. Draw a simple diagram showing how energy is captured, stored, and used throughout the process. In other words, how the energy gets to users.

## **Write a Letter**

Find the address of a local representative, it could be a city or state representative, and write them a letter about the benefits of utilizing your alternative energy. If you prefer, you can send an email with the information instead.

## **Create a Comic Strip**

Research how your alternative energy actually works. Draw a comic strip that includes your alternative energy be utilized in some way.

## **Write a Pro-Con List**

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Create a **Poster** to promote an alternative energy source

Write a **Persuasive Paper** that highlights the benefits of using your chosen alternative energy source

Develop an **Action Plan** for your town to implement this energy source

Find one news article and write a **Current Event Summary** about a successful use of this energy source in the world

**Start Here**  
Read the *Gale In Context: High School* "Alternative Energy" topic page overview and answer the critical thinking questions

Create a **Diagram** of how this energy source works

Write a **Letter** to your local representative about the benefits of your chosen alternative energy resource

Create a **Comic Strip** that shows your alternative energy in action

Create a **Pro-Con List** comparing the benefits and disadvantages of your chosen energy source

# UNDERSTAND ALTERNATIVE ENERGY

*Access Gale In Context: High School:*

## **START HERE: Read the Renewable Energy Topic Page**

Within *Gale In Context: High School*, search “Alternative Energy” to access the topic page. Click Read More to read the “Alternative Energy” overview. Answer the **Critical Thinking Questions**.

## **Create a Poster**

Browse the **Images, Newspapers, and Magazines** within the “Renewable Energy” topic page to get some ideas. Create a poster that includes both text and images, and provides information to spark interest in your alternative energy.

## **Write a Persuasive Paper**

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## **Develop an Action Plan**

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