

Geography Sub Plans

PDF & DIGITAL FORMATS



RESOURCE INCLUDES

- ✓ Detailed Lesson Plan
- ✓ Non-Fiction Article
- ✓ Podcast & Video Links
- ✓ Graphic Organizers
- ✓ Journal Response Question
- ✓ Discussion & Comprehension Activities
- ✓ Print & Digital Formats

2 Peas and a Dog
Middle School Teaching Resources



LESSON OVERVIEW

In This Lesson Students Will:

1. Watch short videos about solar panels.
2. Read an informative non-fiction article on solar energy.
3. Complete a T-Chart to analyze the pros and cons of solar panels.
4. Reflect on their learning through a journal response.
5. Participate in a class discussion on renewable energy.
6. Use a podcast anticipation guide before listening.
7. Listen to a podcast episode on solar farms.
8. Answer post-listening comprehension questions.

DETAILED TEACHER PAGES

LESSON PLAN



Solar Panels

Lesson Overview:

Students will explore the advantages and disadvantages of solar panels.

Materials Needed:

- ☐ Computer with projector, speakers and internet
- ☐ Video 1: [Employed sheep hired to snack and nap #shorts #sheep](#)
- ☐ Video 2: [First look at Canada's largest solar farm](#)
- ☐ Video 3: [ABC News - Solar panels - the future of the world](#)
- ☐ Podcast: [The Future of Solar](#)
- ☐ Photocopy of the following:
 - Solar Panels Advantages and Disadvantages Chart
 - Solar Panels Thinking Question
 - Cost of Living Graphic Organizer

Teacher Instructions:

1. This lesson might take two class periods, depending on your students. It does not need to be completed in one class period.
2. Ask students to explain what they know about sheep. Write down their thoughts on the whiteboard.
3. Then, as a class, watch the video, [Employed sheep hired to snack and nap #shorts #sheep](#).
4. Have a quick class discussion on your students' thoughts about the video.

DIFFERENTIATED LESSON PLANS

- Step-By-Step Instructions
- Student Pages
- Answer Keys

SAMPLE ANSWERS

Advantages of Solar Panels	Disadvantages of Solar Panels
They are a clean energy source, which means they are better for the environment. They don't cause pollution, keeping the air clean and the Earth healthy.	It can be expensive to initially pay for the installation of solar panels.
Using solar panels also means people could save money on electricity because there are no delivery fees.	If someone moves houses, they most likely will not be able to bring the panels with them after investing the money to install them.
In some places, solar panels might be of a higher cost of purchase, which means they are becoming more expensive.	There is maintenance involved - they need to be kept clean and free from debris.
They can also improve property value.	They are not renewable. Eventually, they eventually need to be replaced.
They can make electricity as long as the sun is shining. Even on cloudy or rainy days, solar panels work.	

SAMPLE LESSON PAGES

SOLAR PANELS

The sun is a renewable resource. It will continue to give off sunlight for years to come, unlike other forms of resources that will eventually run out. This means that solar power is a sustainable form of energy.

Have you ever seen shiny panels on a roof? Those are called solar panels. They are like supercharged batteries that use sunlight to make electricity.

Solar panels are made up of many smaller parts called solar cells. These cells soak up sunlight and turn it into electricity.

One advantage to using solar panels is that they are a clean energy source, which means they are better for the environment. They don't cause pollution, keeping the air clean and the Earth healthy.

Using solar panels also means people could save money on electricity because there are no delivery fees as electricity is being produced from the solar panels on the home.

Initially, it can be expensive to pay for the installation of solar panels. However, in some places, government rebates might be offered to help offset the cost of purchasing this technology, which means solar panels are becoming more affordable to install.

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COST OF LIVING



Solar Farms Pre-Listening

Read the statements below. Then check the answer box that aligns with your thoughts.

Statements	Yes	No
I think people complain about the cost of electricity.		
Public spaces should have solar panels on their roofs.		
I would consider buying an electric car.		
I would consider buying an electric car.		
Solar panels are allowed on roofs in the place where I live (e.g., town or city).		
I know the source of the electricity that is used where I live (e.g., coal, nuclear, hydro, natural gas).		
I think about the environmental impact of different types of electricity generation.		
People might be encouraged to install solar panels on their homes if they were paid for by the local government.		

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SAMPLE ANSWERS

Advantages of Solar Panels	Disadvantages of Solar Panels
They are a clean energy source, which means they are better for the environment. They don't cause pollution, keeping the air clean and the Earth healthy.	It can be expensive to initially pay for the installation of solar panels.
Using solar panels also means people could save money on electricity because there are no delivery fees.	If someone moves houses, they most likely will not be able to bring the panels with them.
In some places, government rebates might be offered to help offset the cost of purchasing this technology, which means solar panels are becoming more affordable to install.	
They can also improve property value.	
They can make electricity as long as the sun is shining. On rainy days, solar panels can still generate some electricity.	

SOLAR PANELS THINKING QUESTION

Assessment	Below Expectations	Meets Expectations	Above Expectations
	✓-	✓	✓+

What are your thoughts about solar panels? Would you consider purchasing them for your home? Explain.

ANSWER KEYS & ASSESSMENT

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LESSON FORMATS



PDF

✓ Individual & Whole Unit



DIGITAL

✓ Google Slides



**THIS RESOURCE CAN BE USED
IN-PERSON OR ONLINE**

