What is Solar? Lesson Plan

Grades: 5th-8th

Overview	Vocabulary
Students will develop an understanding	Energy
of how solar power is used and how it	Electricity
can help reverse the effects of climate	Solar
change.	Renewable Resource
	Non-renewable resource
	Climate Change

Essential Question	Provoking Questions
Why should we use the sun as a source	Grades 5th+6th: What needs electricity
of energy?	in your home? In your school?
	Grades 7th+8th: How do our energy
	sources influence climate change?

Lesson Objectives

The learner will...

- 1. Describe the difference between renewable and non-renewable
- 2. Why fossil fuels are harmful for the environment
- 3. Where and how solar panels are used

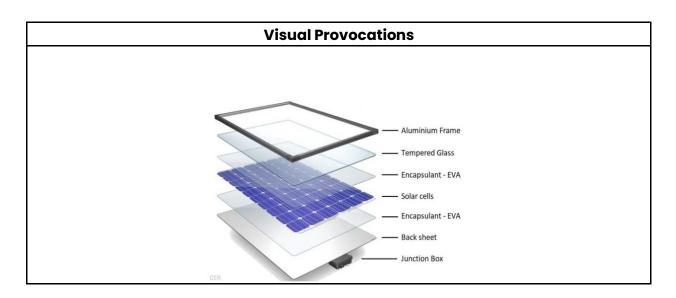
Direct Instruction

- 4. Introduction to energy/electricity. Students are prompted to create a list of everything they think requires electricity in their lives.
- 5. Share different items on electricity lists. Discuss what energy looks like in you and me. Do we get tired if we move too much? What does it mean to conserve energy? Try this activity: dance and move around as much as you can for 5 minutes, how does your body feel?
- 6. Introduce climate change and energy sources. What is non-renewable and what is renewable? Use a visual or hands on activity to teach the difference.
- 7. Solar Power: Use PowerPoint presentation to give an overview of what solar is and what it is used for.



- 8. Closing activity: Solar prints. Begin activity by asking students to make guesses on what they think will happen with the paper. Discuss what it might look like in a shady spot.
- 9. Share final solar prints with each other and reflect on the sun being used as a renewable resource.
- 10. Fill out exit ticket or verbally share what we've learned.

Modifications/Adaptations		
Small motor skills:		
Twice exceptional:		
Varying skill level:		



Instructional Resources	Technology
Electricity Generation Flash Cards from	PowerPoint presentation
Vermont/New Hampshire Energy	
Education Program	

Assessment

- 11. Exit ticket: see below
- 12. Checklist kept by instructor checking for: a) attention to craft b) understanding the purpose of a portfolio



Exit Ticket:

Name:	
Why should we use renewable resources instead of non-renewable?	
What are some ways you can conserve energy at home?	

