Grade Level: Elementary **Subject Focus:** Energy Sources (**Earth Day**) **Date:** 6/9/2020

Georgia Standard of Excellence (GSE)	Performance Expectation for GSE: S6E6. Obtain, evaluate, and communicate information about the uses and conservation of various natural resources and how they impact the Earth. a. Ask questions to determine the differences between renewable/sustainable energy resources (examples: hydro, **solar**, wind, geothermal, tidal, biomass) and nonrenewable energy resources (examples: nuclear: uranium, fossil fuels: oil, coal, and natural gas), and how they are used in our everyday lives
Learning Target(s) Targets must be aligned to the GSE and with the assessment(s); targets should be stated as measurable (e.g. 'I can' statements for students).	I can identify renewable and nonrenewable resources. - Fossil Fuels and Solar Energy I can define solar energy.
Materials What resources will be needed to engage students? Be as precise as possible	**Solar Oven Pizza Box:** - Pizza Box - Newspaper - Tape - Scissors - Black Construction Paper - Clear Plastic wrap - Aluminum Foil - One Piece of Notebook Paper - One Pencil or Pen - Stick or Ruler ***Students need their grownup to do this activity***
Oxbow @ Home Project Describe your project. Include the steps and directions that students and/or parents would need to follow	My project is a very fun and interactive tasks for students of elementary age to do with their parents. My project includes a powerpoint voiceover and youtube video that explains how to make Solar Pizza Box Oven. **Instructions:** First: Listen/read to Powerpoint Second: Grab Materials for Solar Pizza Box Oven Third: Watch my youtube video on how to make Solar Pizza Box Oven - **Steps:** 1. Grownups, get your ruler and pencil, and on the pizza box lid, draw a square an inch inward from each edge.

	2. Next, grab your scissors, you are going to cut all the way through the lid on three sides. 3. After that, lift the lid and place your sheets of black construction paper on the bottom of the pizza & make sure the entire bottom is covered 4. Then place aluminum foil sheets on top the sheets of construction paper. 5. Now, tape some aluminum foil on top of the lid. Grab your ruler or stick, so that the lid stays up. 6. Lastly, grab some smores place on top of the foil and grab plastic wrap and place on top of the food.

PowerPoint Video (click on it to play):

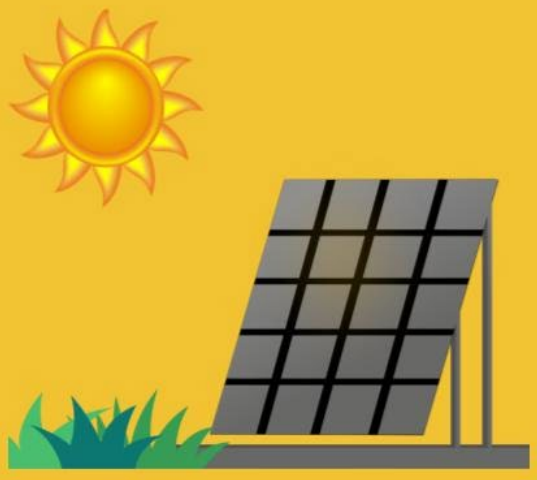
- **PowerPoint Slides (if video did not work):**

Solar Energy

Serenity Waters

What is Solar Energy?

- **Solar Energy** is light, heat, and other forms of energy that is given off by the Sun.
- Solar Energy can be used to heat buildings and to make electricity.



What does Solar Energy have to do with Earth Day?

- As of now, most of the energy we use comes from fossil fuels. **Fossil fuels** is a **nonrenewable** resource. This means that one day, we will run out of fossil fuels.
- **Solar energy** is a **renewable resource** which means we will never run out. We have an endless supply of sunlight.
- **Solar Energy** also does not cause any pollution into the environment so it improves the air we breathe.

What would Solar Energy look like?

- Most solar energy is used by using **solar panels.**

Here is the video (I also posted on Youtube. Click this link: https://youtu.be/jG6a-YVDBC4):

Fun Drawing Activity!:

WHAT IS SOLAR ENERGY?

Solar energy comes from the sun. The sun is an important resource, as it helps sustain life. Without the sun, our planet would have no life. Through the use of technology, we are able to harness the energy from the sun to convert it to electricity.

SOLAR CELLS are tools that change light energy from the sun and other light sources into electricity. Many calculators use solar cells to power them.

A SOLAR PANEL is a group of solar cells connected to form a large, flat surface.

THINK AND DRAW

What do you think a car powered by the sun would look like? Draw a picture.