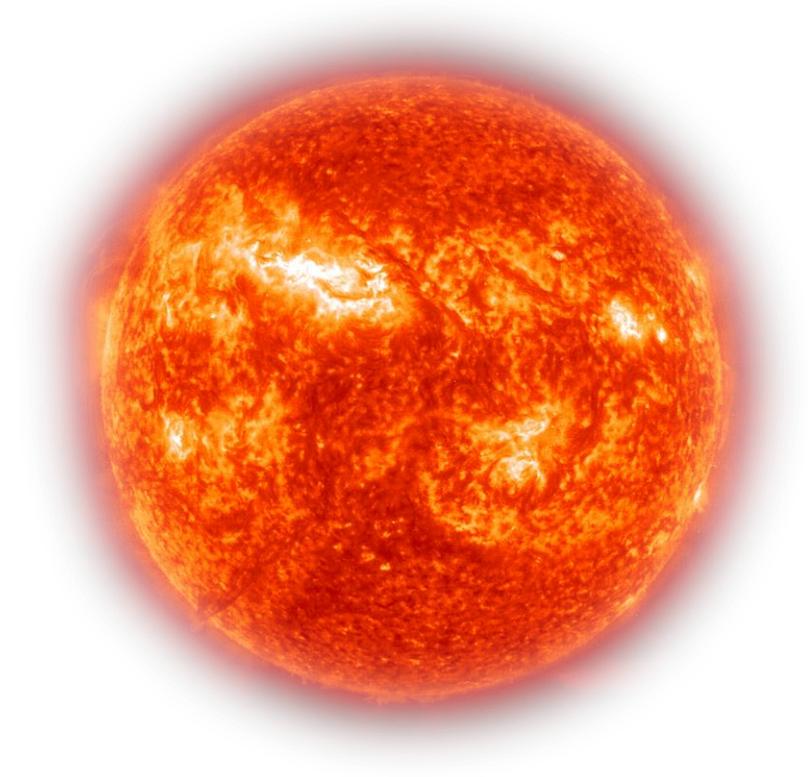


# Science

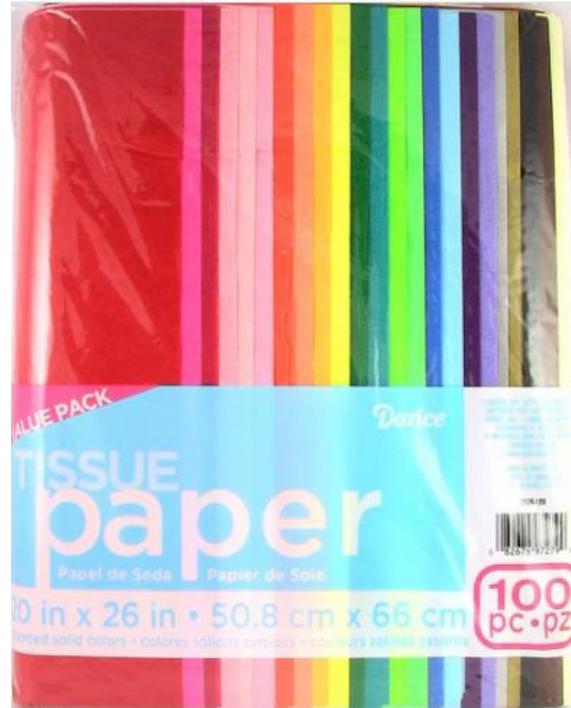
Sun Energy

Today we are going to learn heat is a form of energy from the sun.



# The materials needed for this lesson are...

- Plastic mason jars (3 per class)
- Tissue paper
- Glue sticks
- Glow in the dark stars
- Solar tea lights

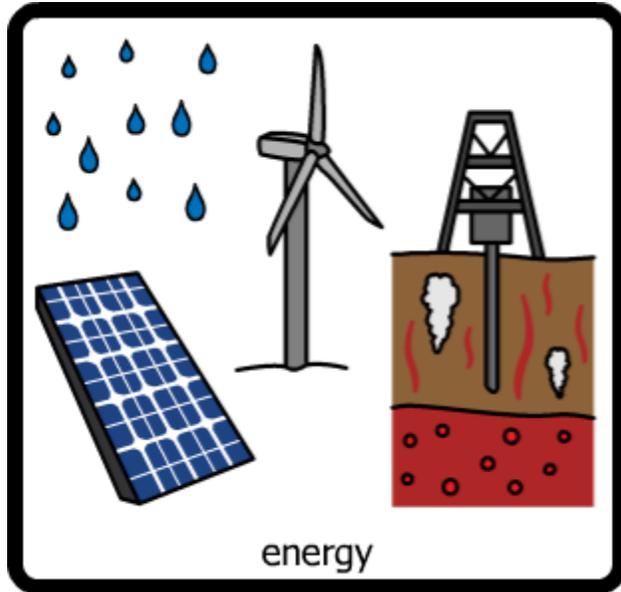


Other optional items to enhance reading:

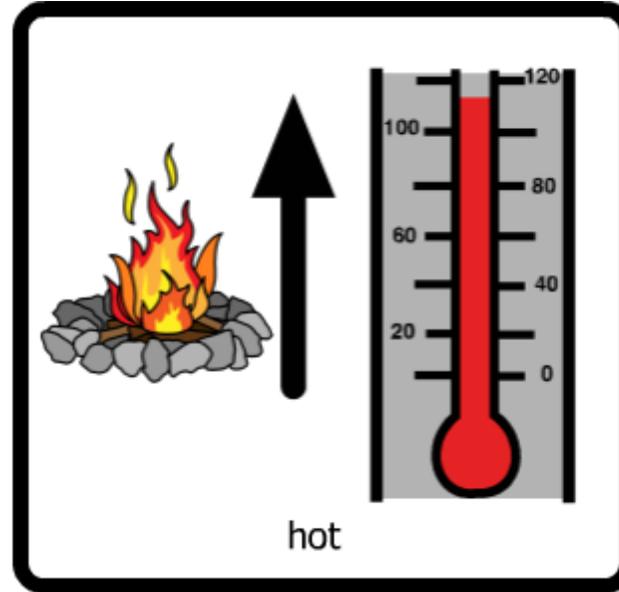
- Toy dog
- Yellow balloon or ball
- Flashlight
- Hand warmer or microwave damp wash cloth
- Plastic light bulb



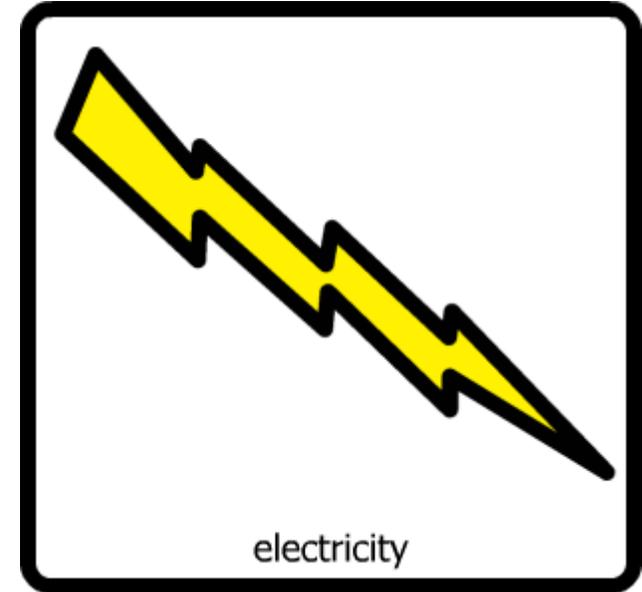
# Here are the vocabulary words for today...



Energy is another word for power.  
Energy makes things move.  
It makes machines work.  
Energy also makes living things grow.



holding or giving off great heat; higher in temperature

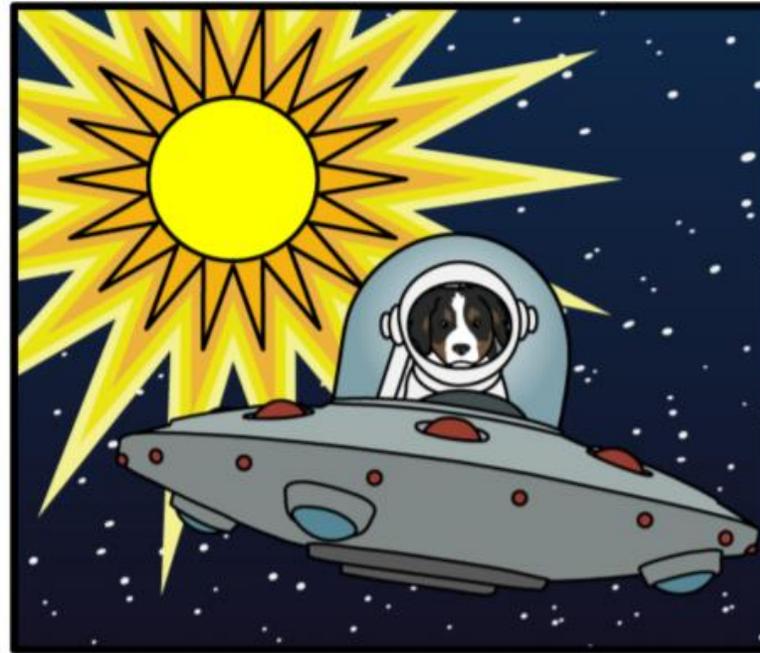
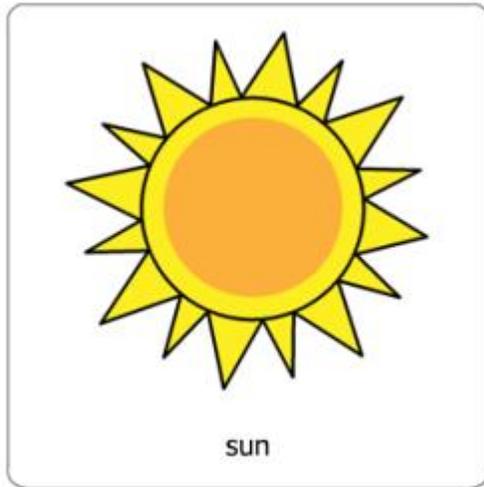


the flow of tiny particles called electrons and protons. It can also mean the energy you get when electrons flow from place to place.

Step One: Read the Story!

# Sky Pup Explores the Sun

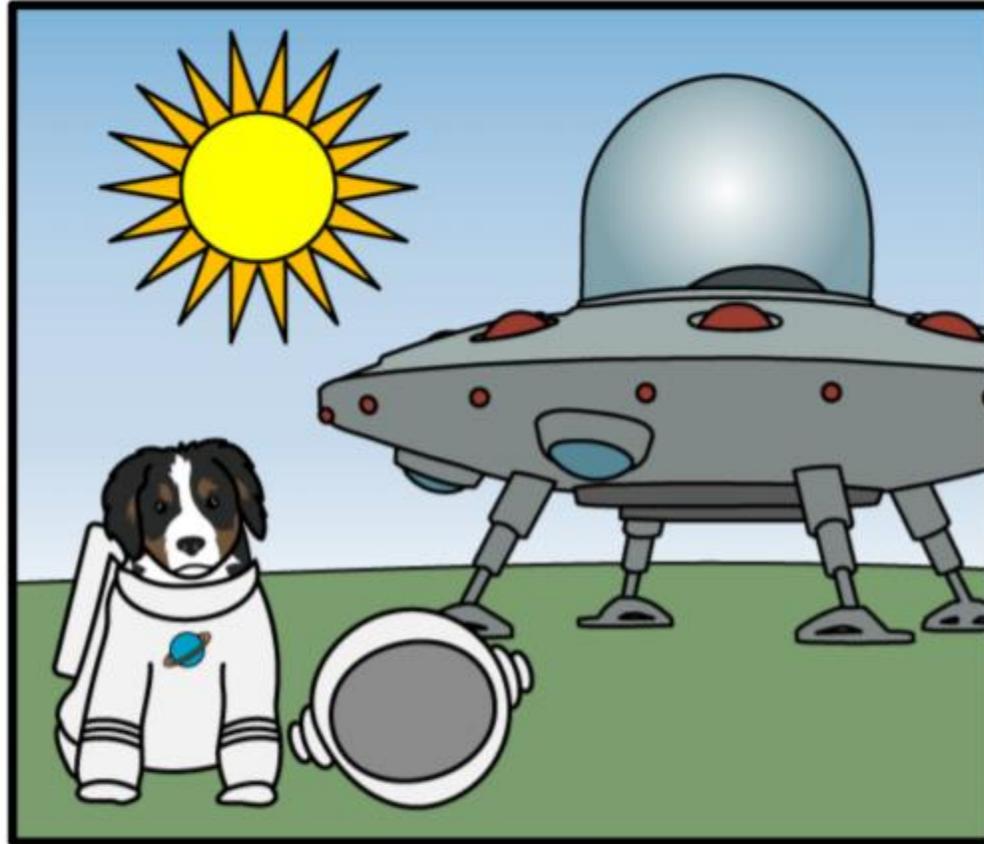
Level B



by Emily Weinberger

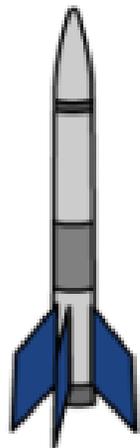
Illustrated by Alex Wisehart





**My name is Sky Pup.  
Do you want to go to the sky with me?**

Hold hands and count..  
10, 9, 8 7 , 6 , 5 4, 3 2, 1



rocket



**Ready... Set... Blast off !**



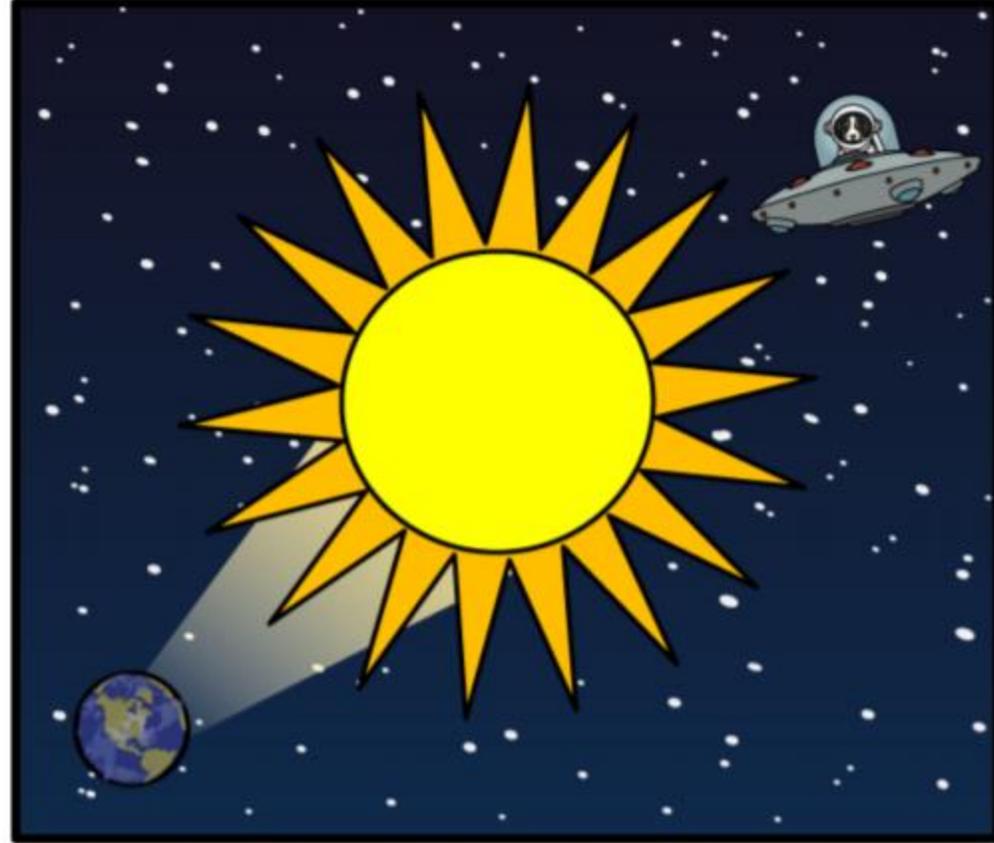
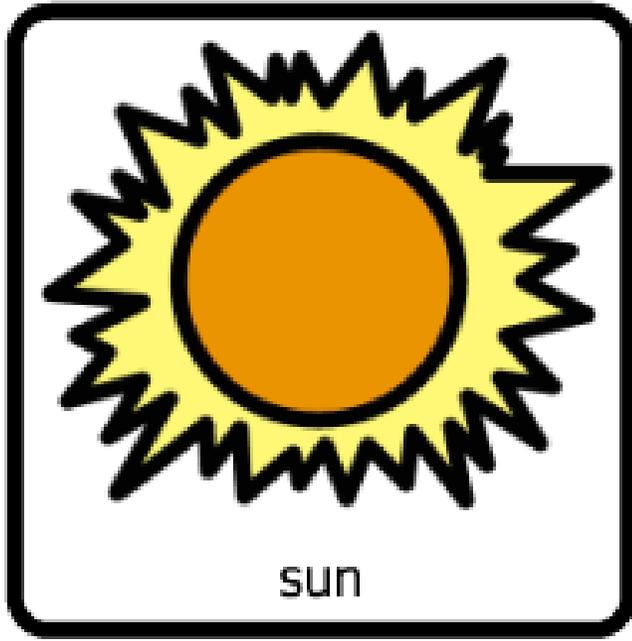
I see stars.





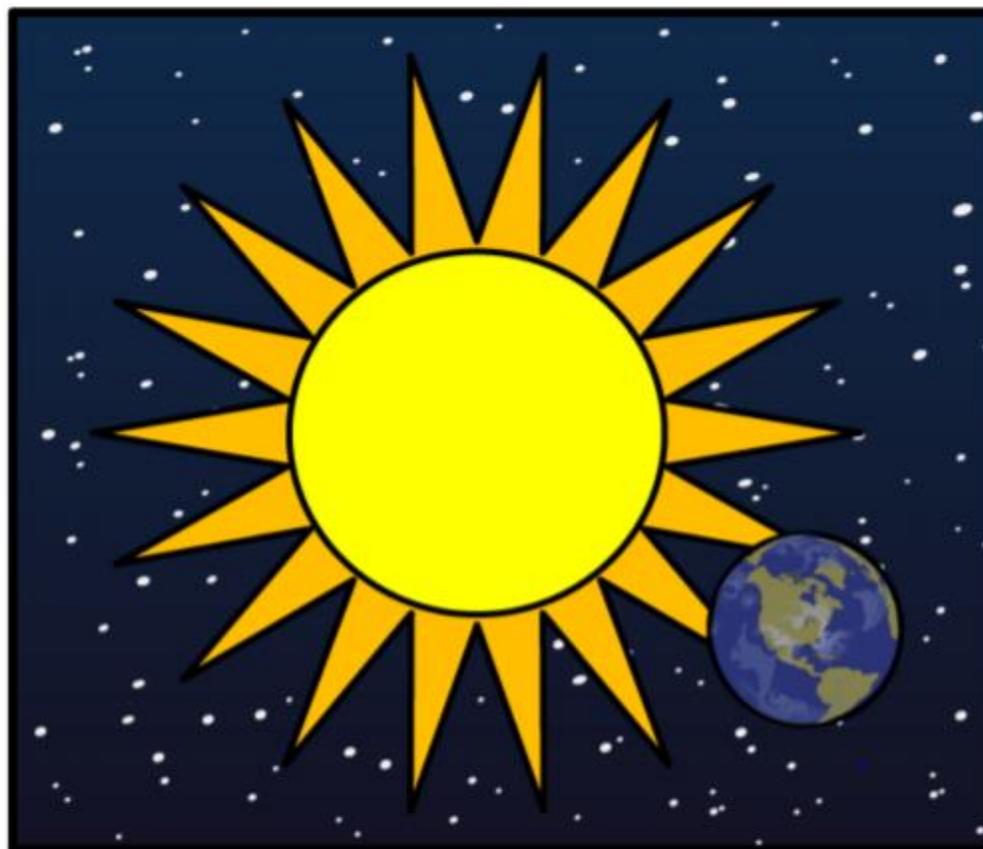
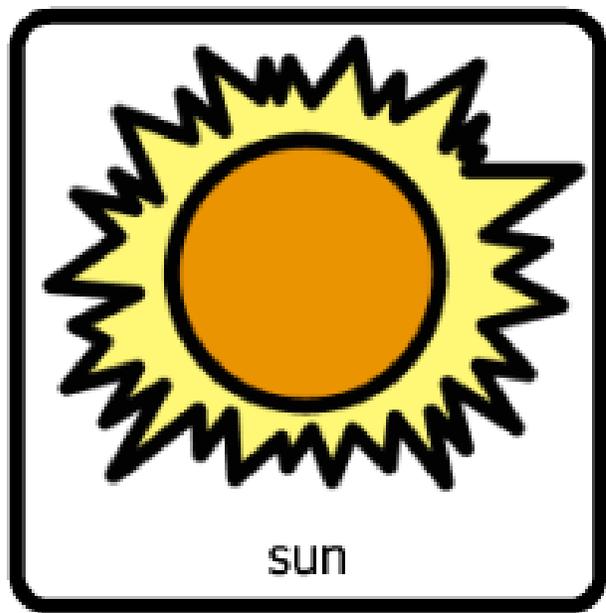
**We can see stars at night.**





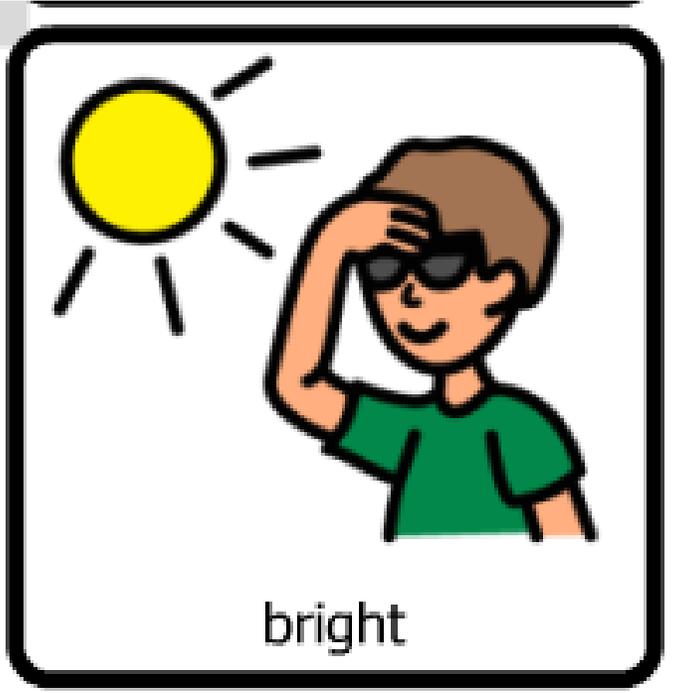
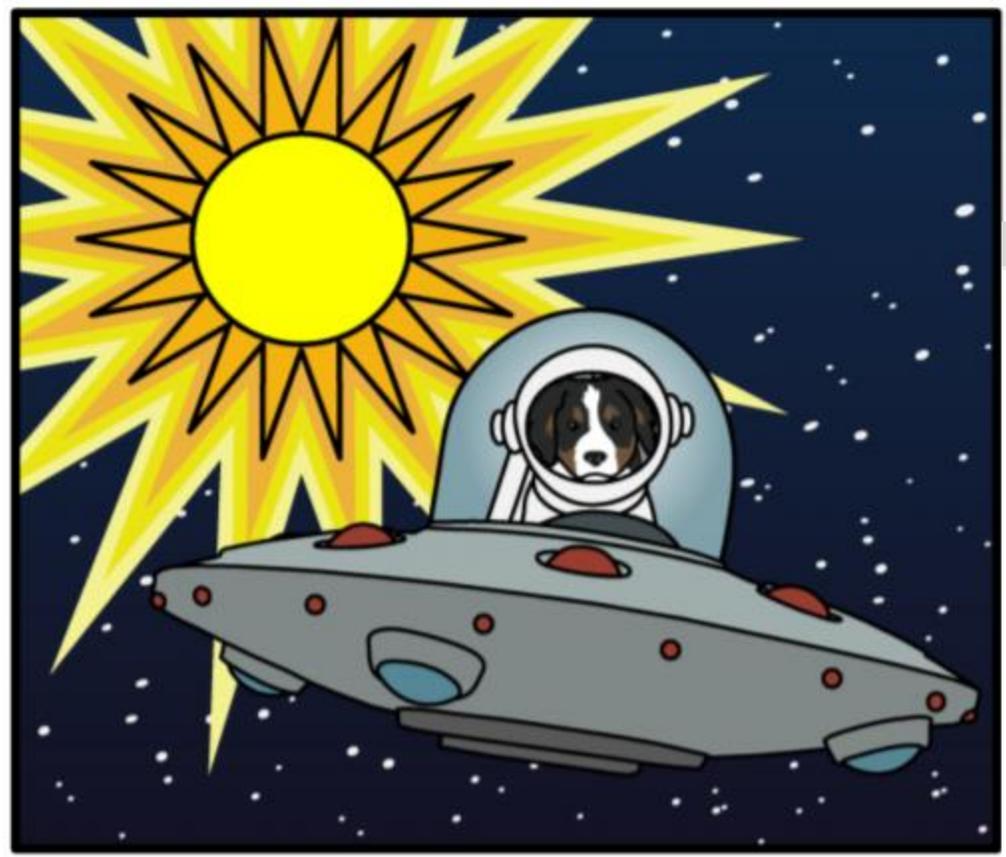
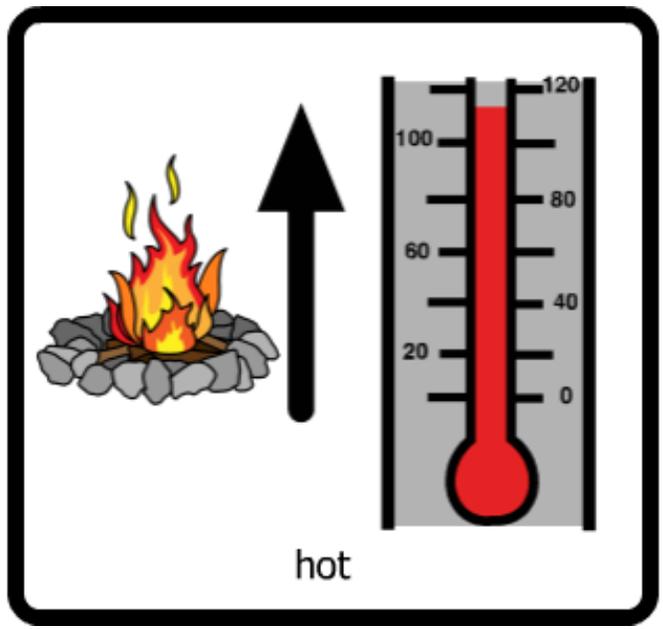
**We can see one star in the day.**





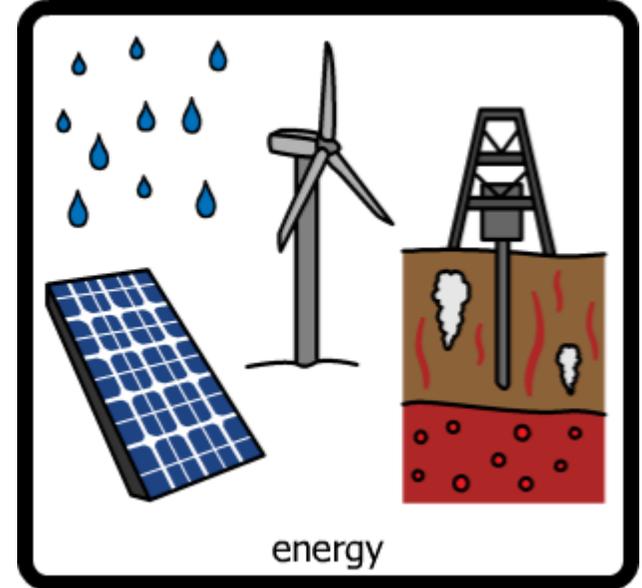
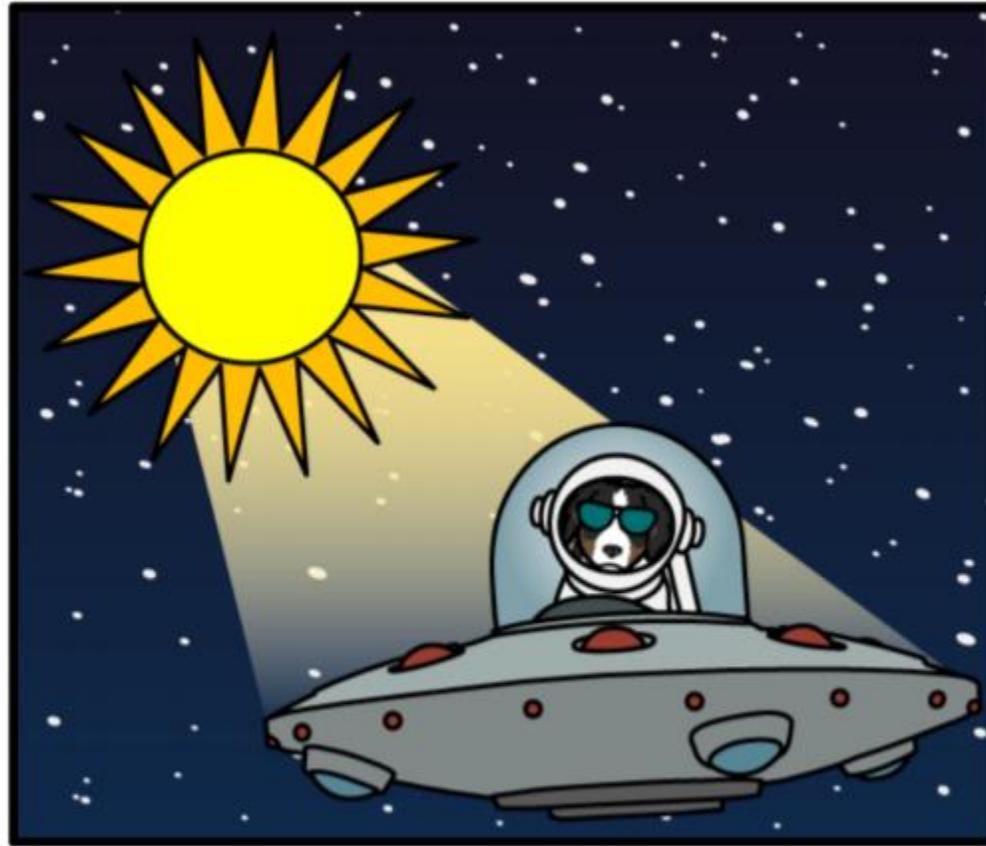
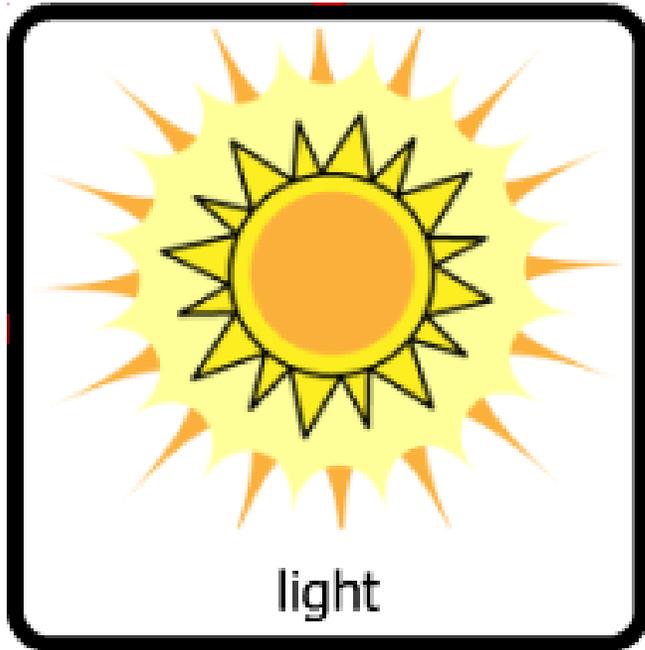
**We can see the Sun.**





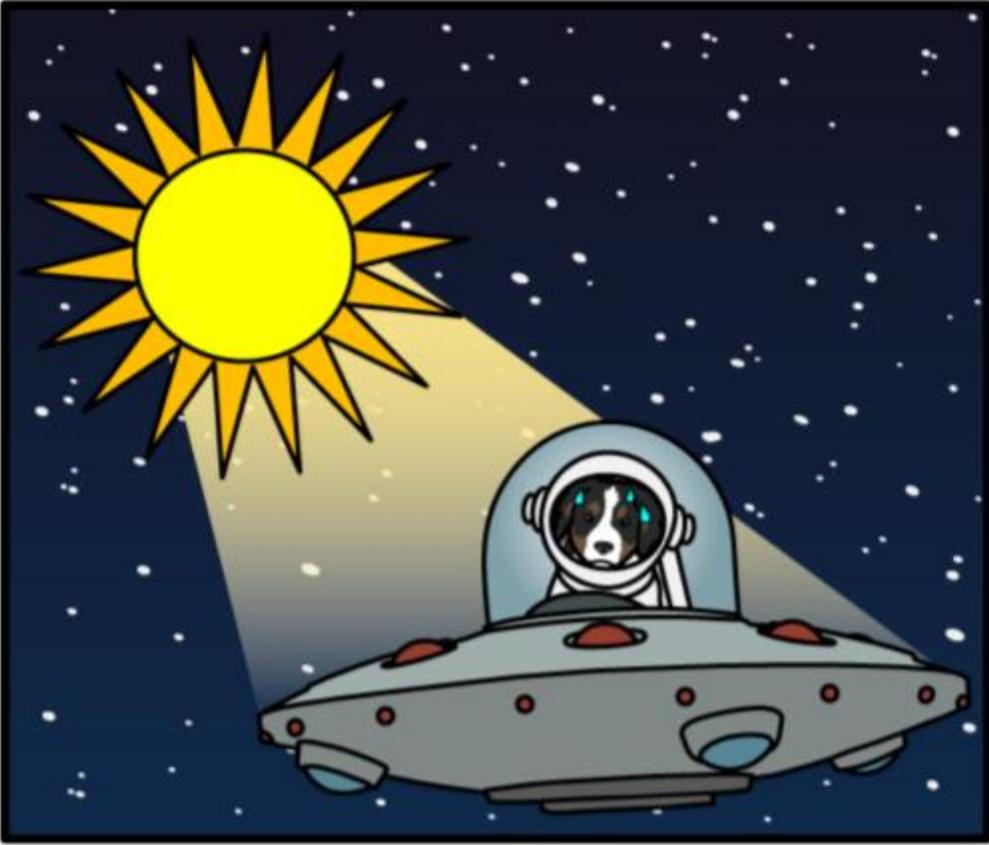
The Sun is warm.  
The Sun is bright.





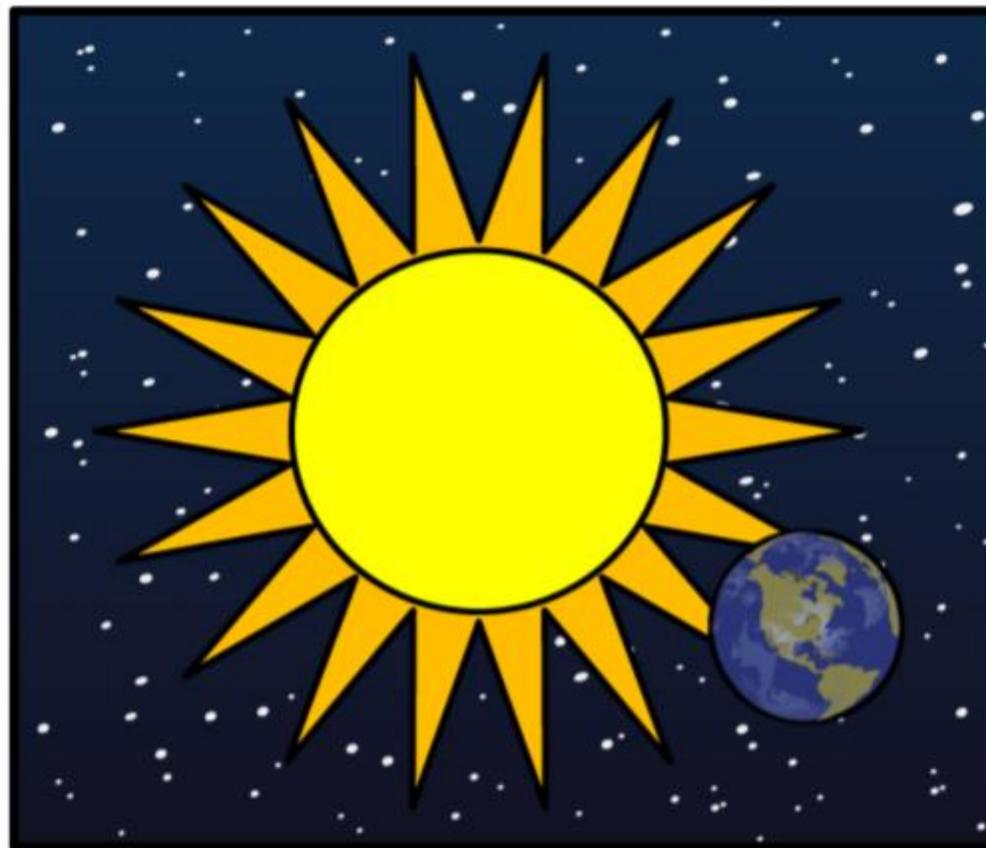
The Sun can give us light.





**The Sun can give us heat.**





**The Sun is a star.**

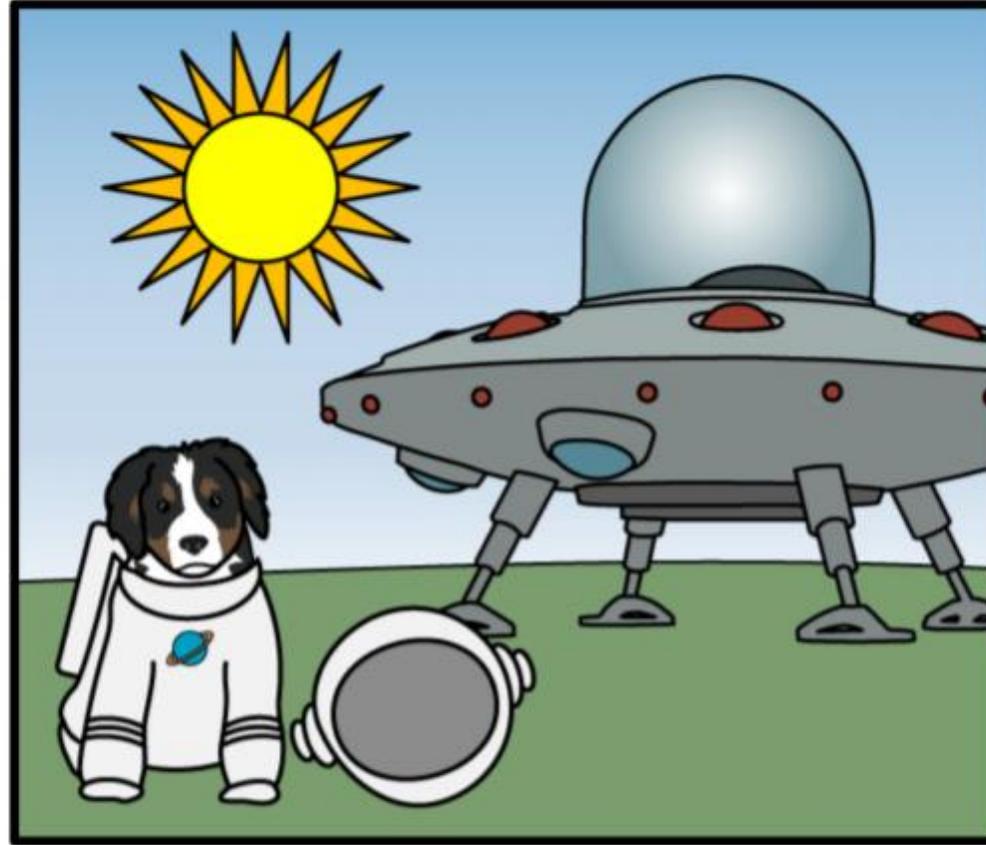


Tell everyone to hold hands!

11



**It is time to go back.  
Hold on tight !**

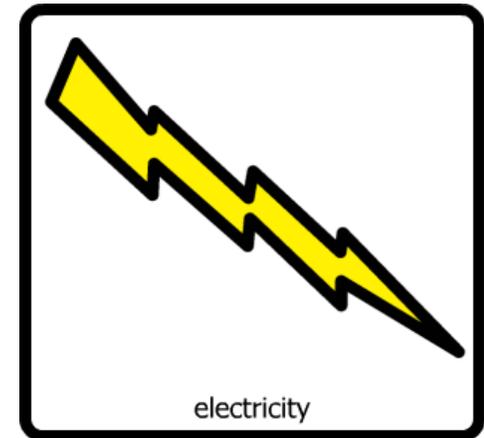
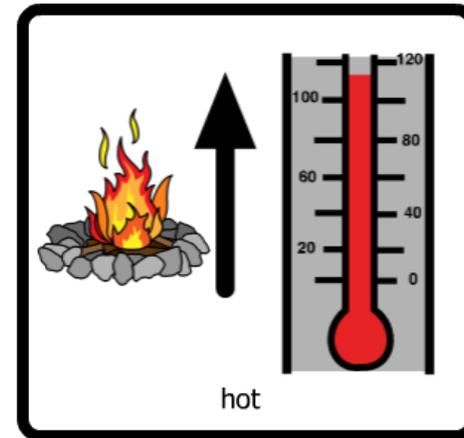
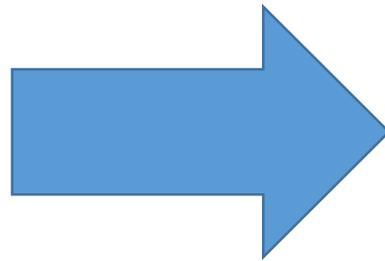
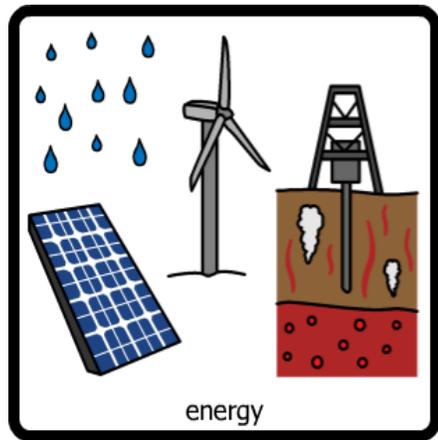
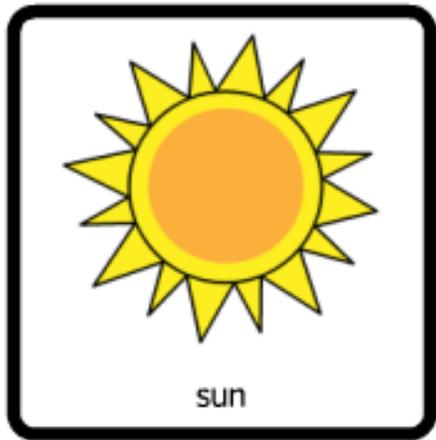


**We made it back !**



**The End**

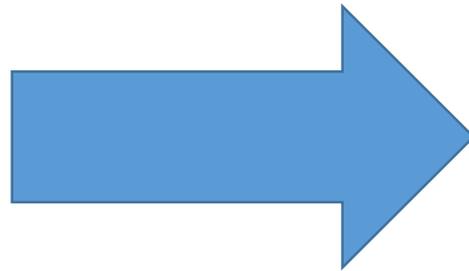
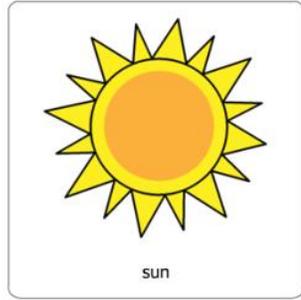
We can use energy from sunlight to make power. This is called solar power. Solar power can be used for heat or converted into electricity.



Activity: We are going to use solar power to make mason jar lights.



Step 1: The solar candles should be outside charging under the sun. Lets bring them back inside.

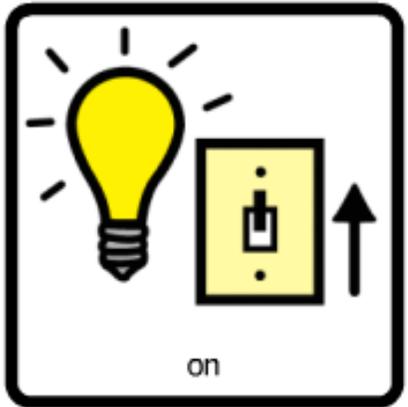


These candles have a small solar panel on the top. The solar panel collects the sunlight and turns it into power. The power charges the battery inside the candle.

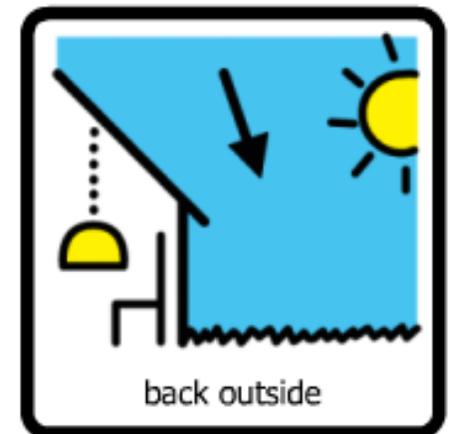
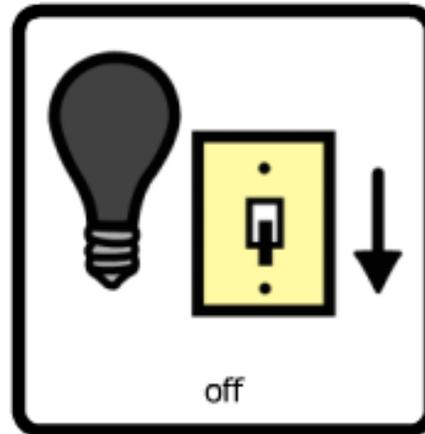


Small solar panel

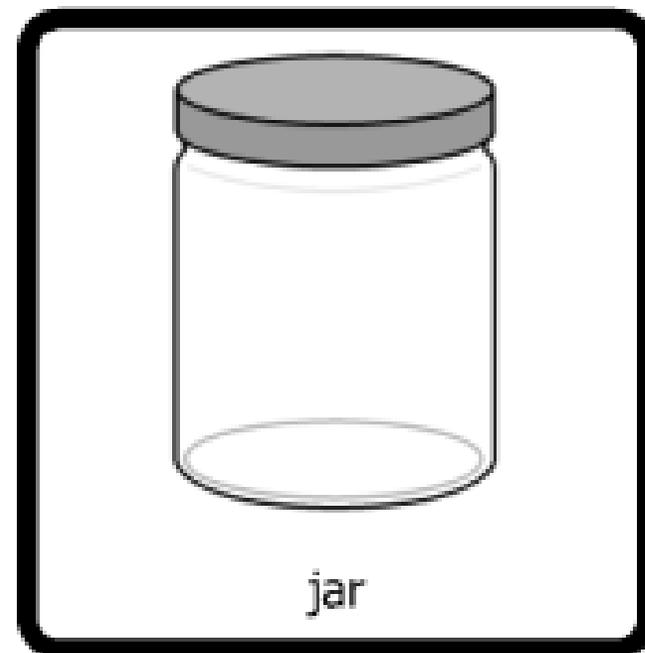
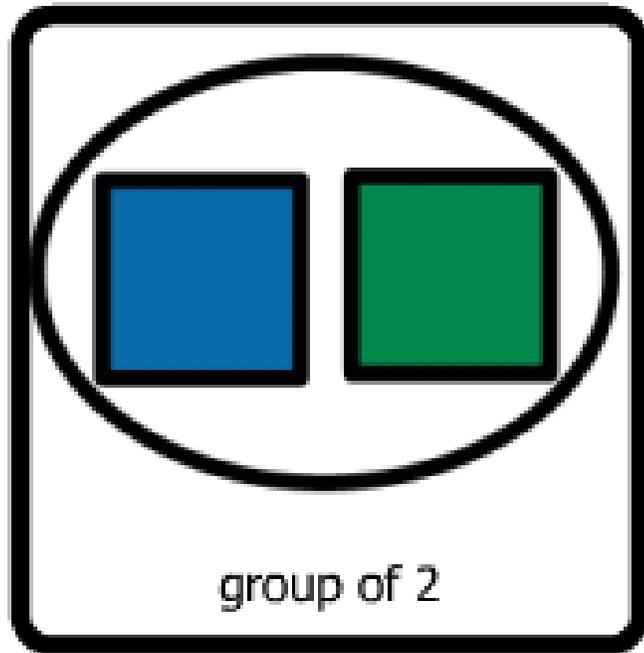
Step 2: Test your candles by turning them on. If they light up they are ready to go. If they do not you will have to put them back outside to charge longer.



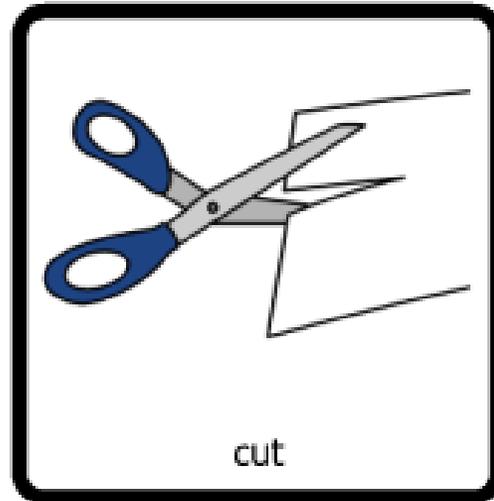
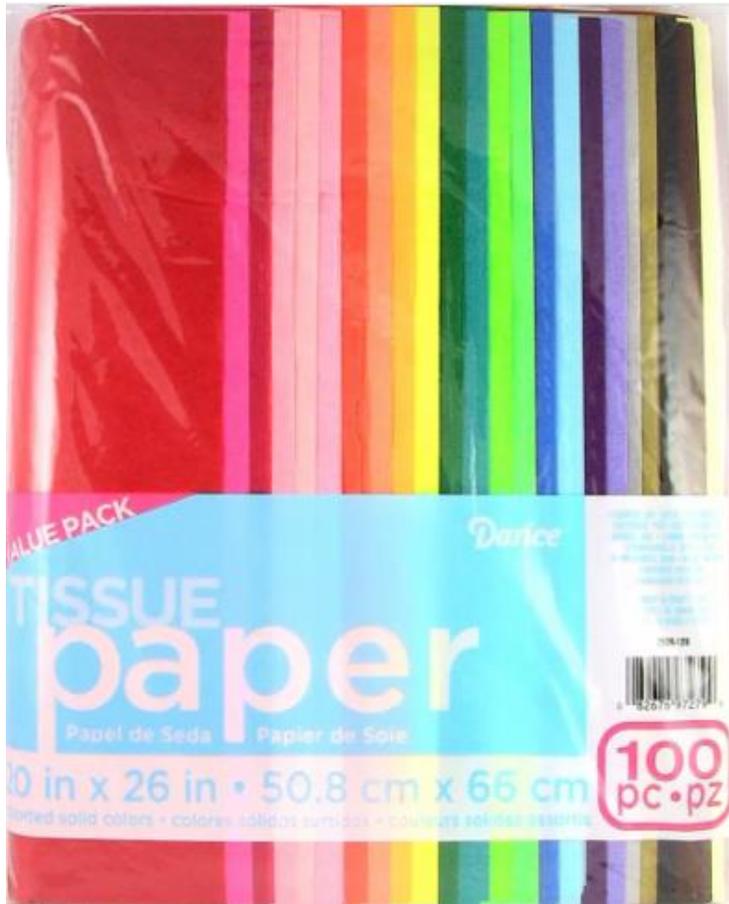
or



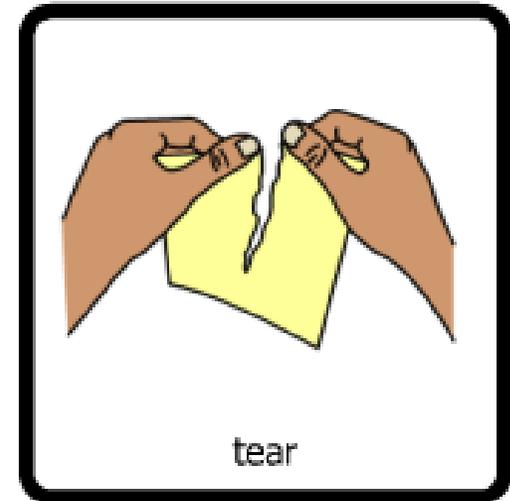
Step 3: Get into groups of 2. Each group gets a jar.



Step 4: In your group you will cut or tear tissue paper into small pieces.

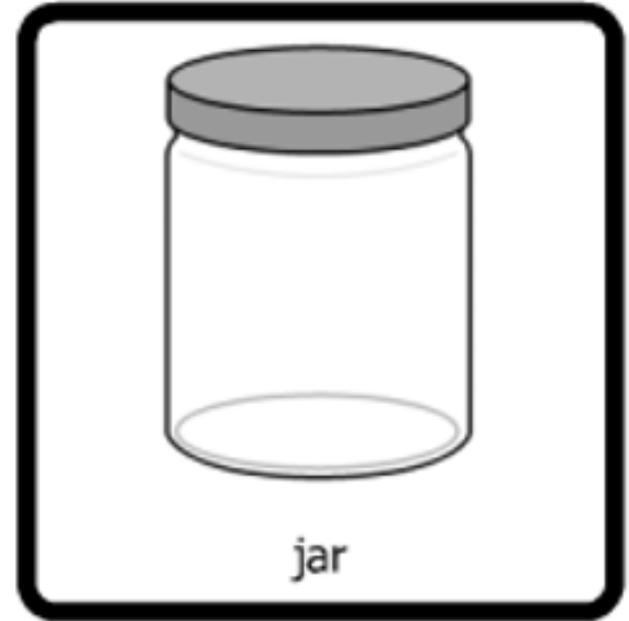
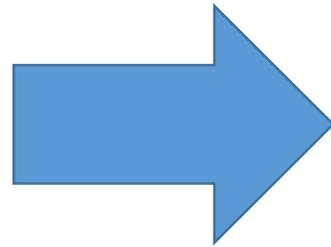
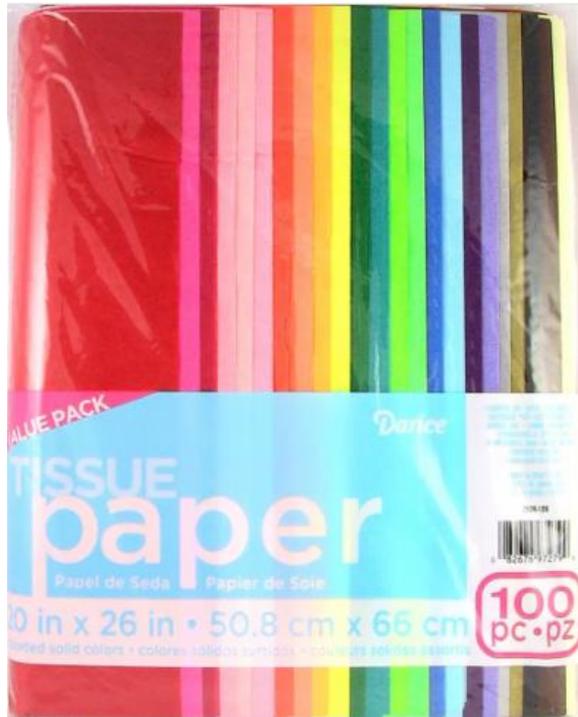


cut

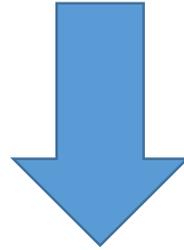
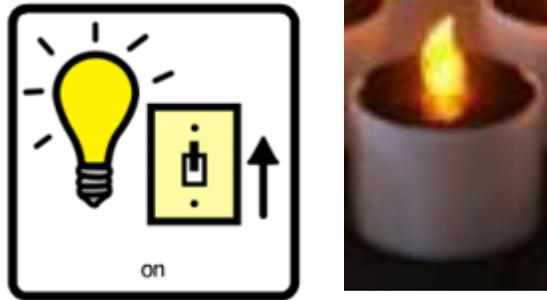


tear

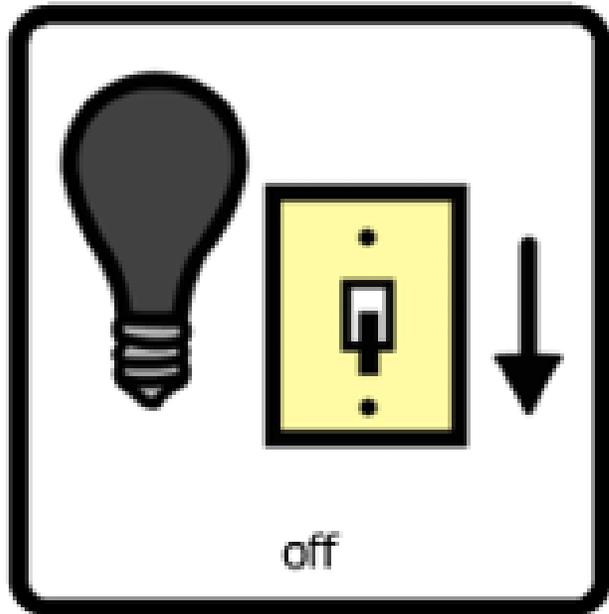
Step 5: Glue the pieces of tissue paper to your jar.



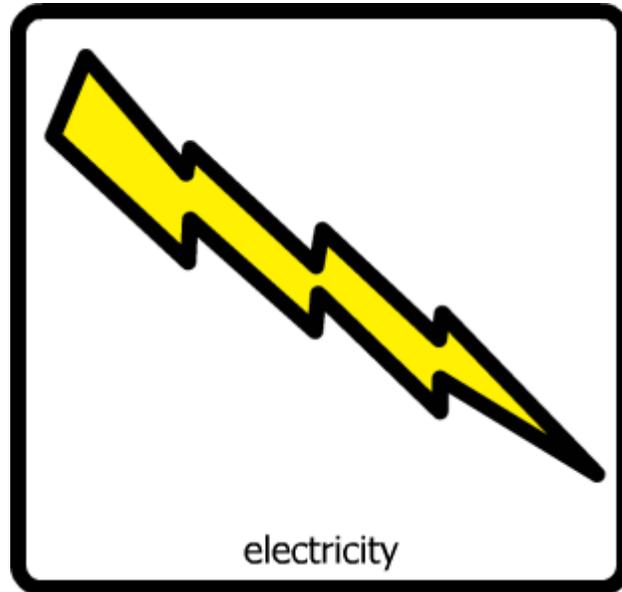
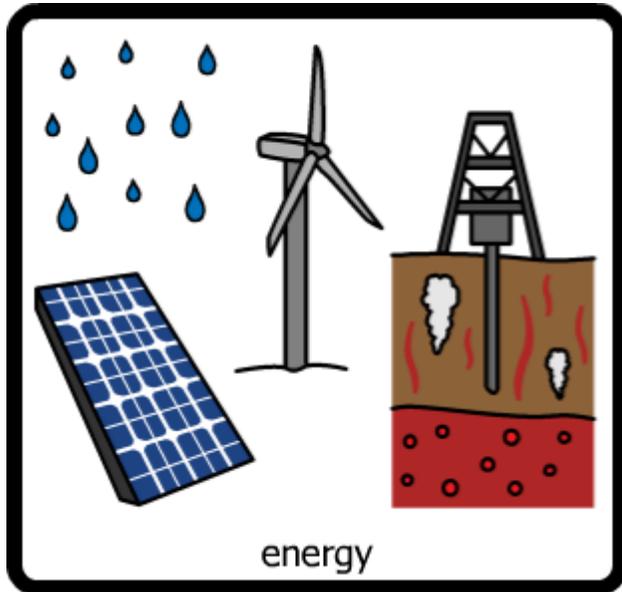
Step 6: Turn your candle on and put it inside your jar.



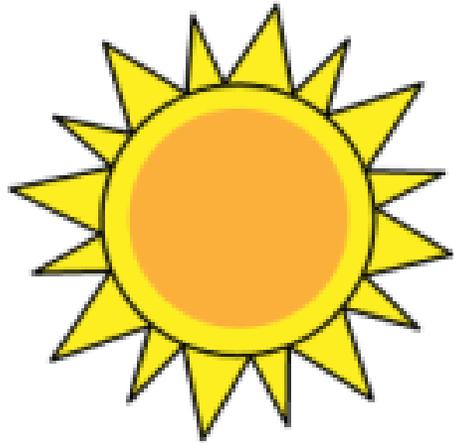
Step 7: Turn the lights off and enjoy your solar powered mason jar lights!



Today we learned about solar power. We used solar power to make mason jar lights.



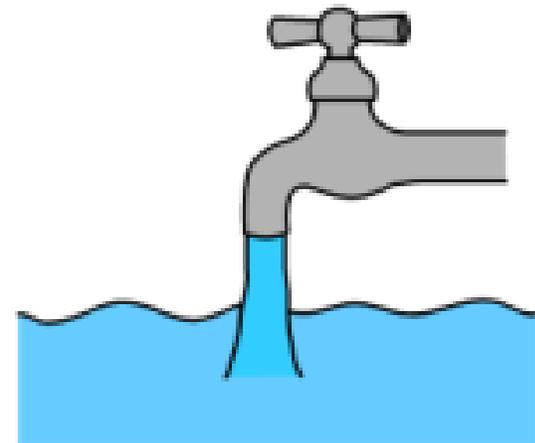
# Where do we get solar power from?



sun

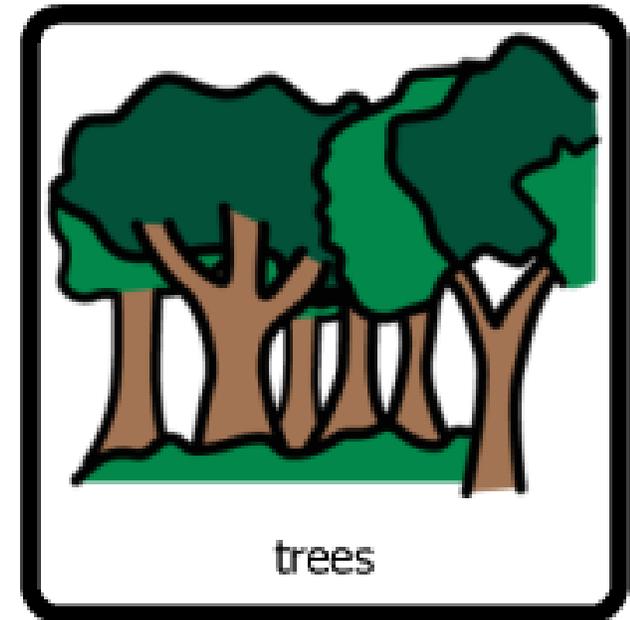
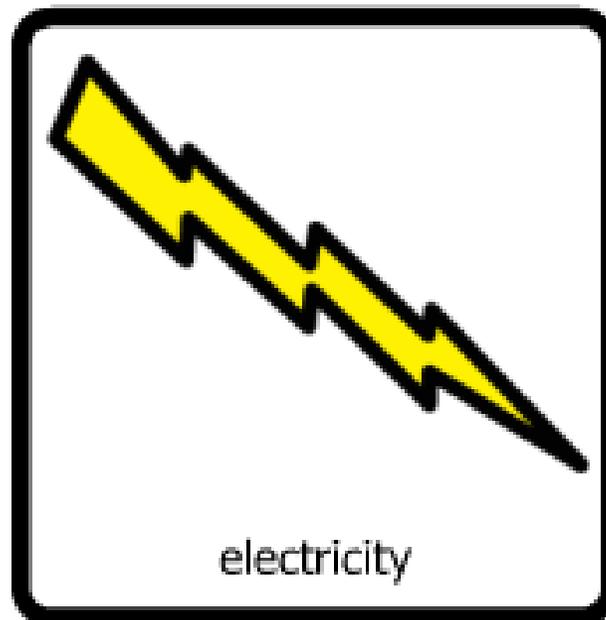
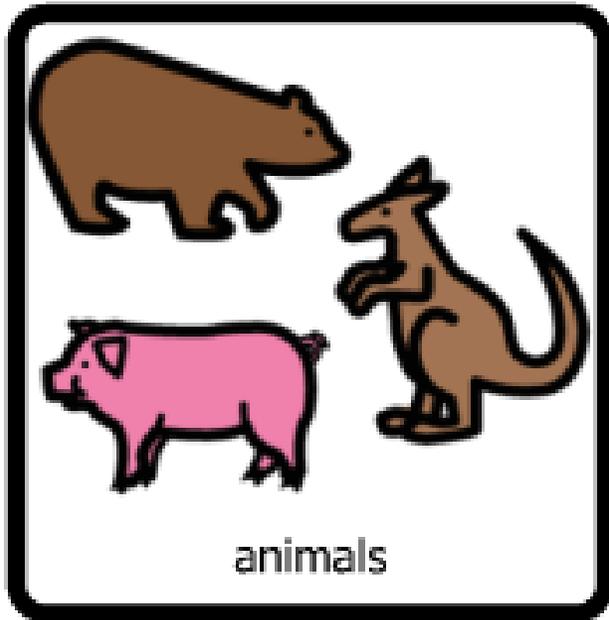


moon



water

# What can we turn solar power into?



# We are ALL DONE!

- Teacher says “\_\_\_\_\_ is All Done! Time for \_\_\_\_\_!”
- Teacher says “Everyone check schedule!”
- Teacher changes the classroom schedule.
- Paras will assist individual students with checking schedules.

