

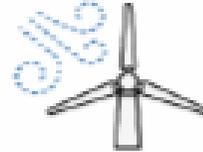
farm



wind farm



wind turbine



wind



energy



desert



shore



hill



China



Canada



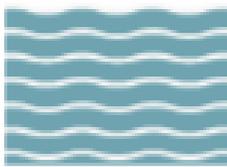
Australia



sea



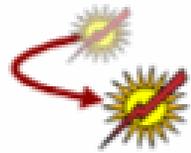
water



North Sea



renewable resource



environment

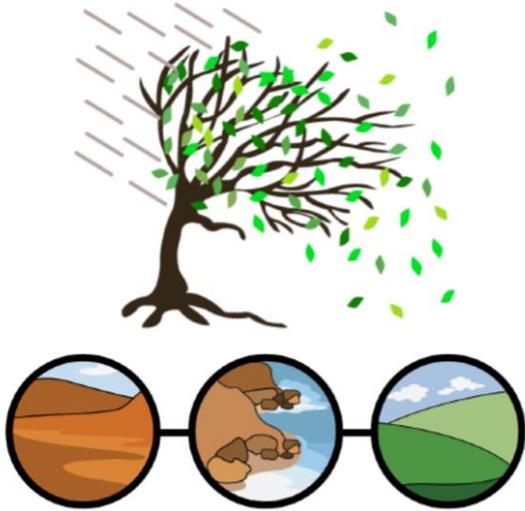
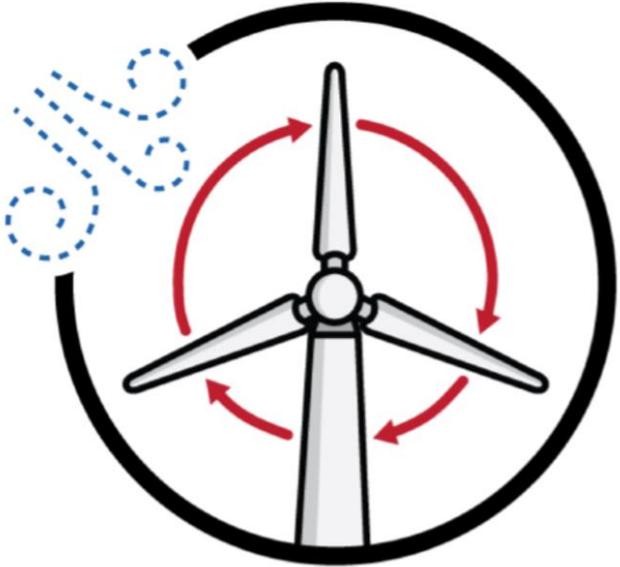




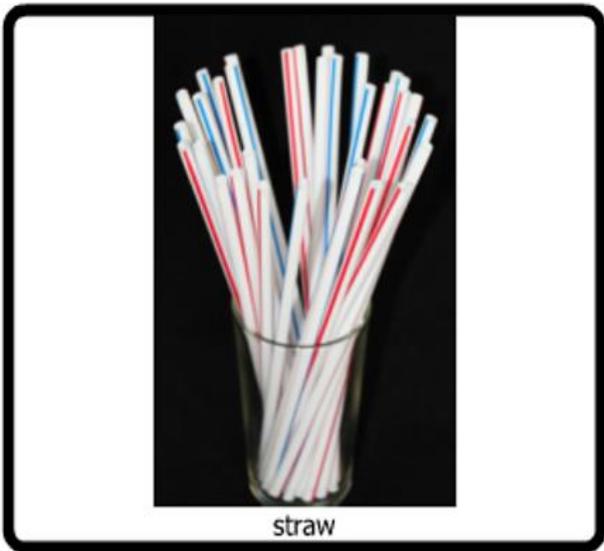
Science

Wind Farms

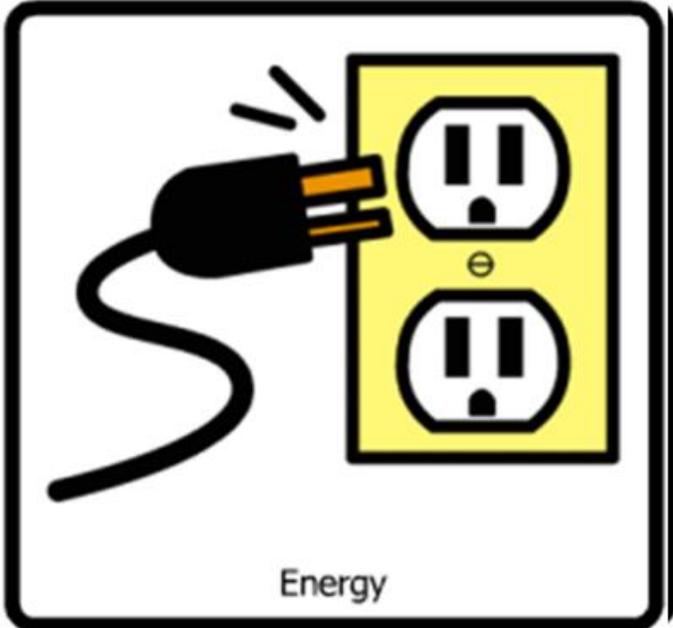
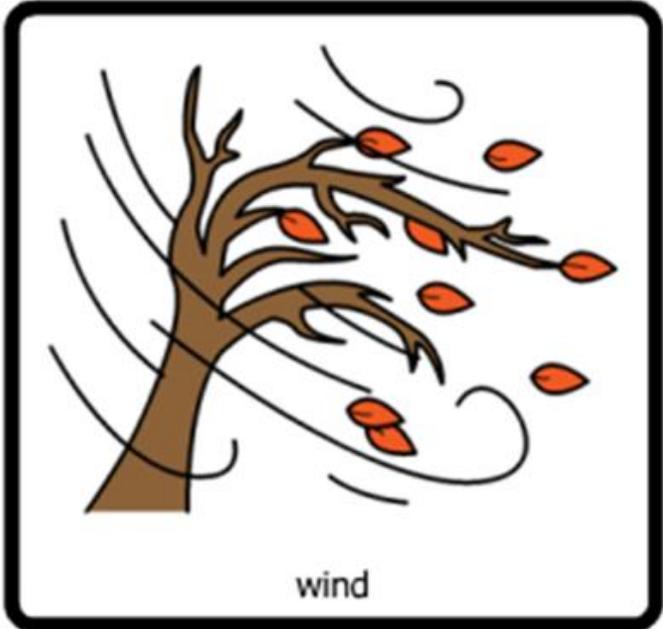
Today we are going to be learning about how the wind can help make energy.



The materials needed for this lesson are...



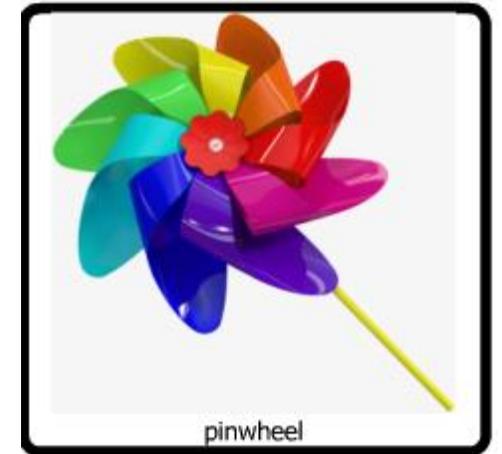
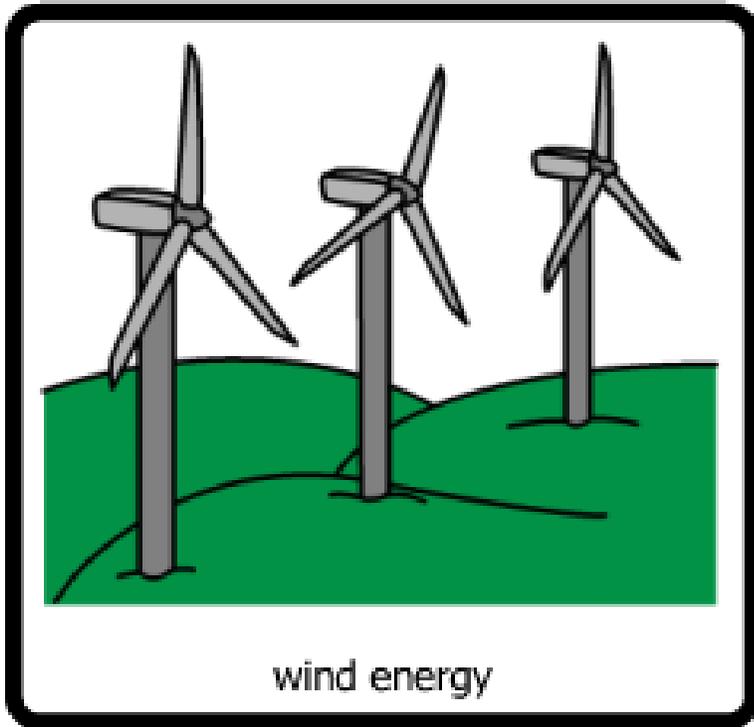
This is our vocabulary for today...



This is a wind turbine

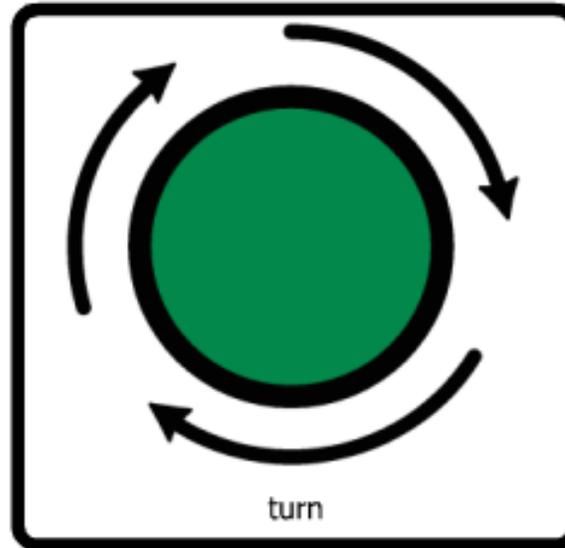
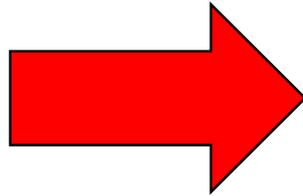
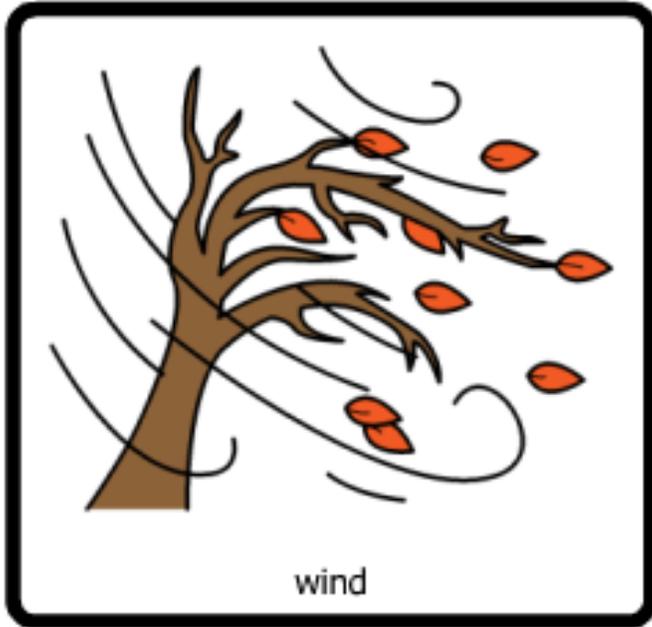
Today we can look at our pinwheels.
They are like mini wind turbines!

Show the pinwheels and practice
blowing on them.

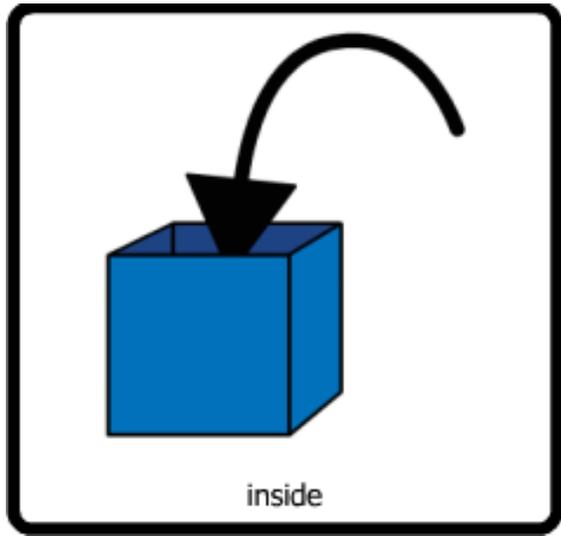
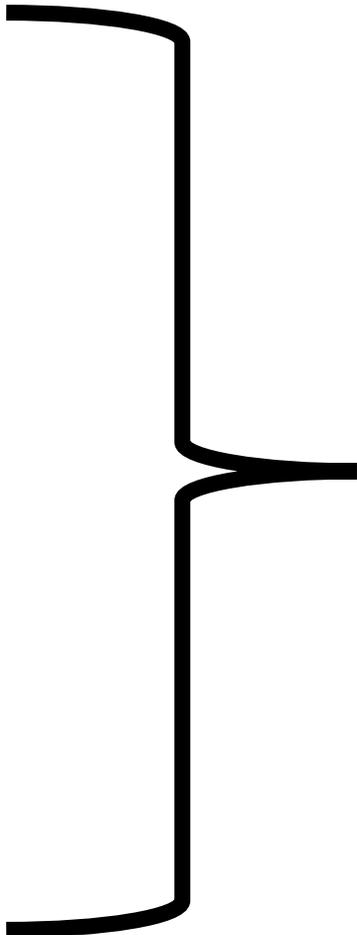
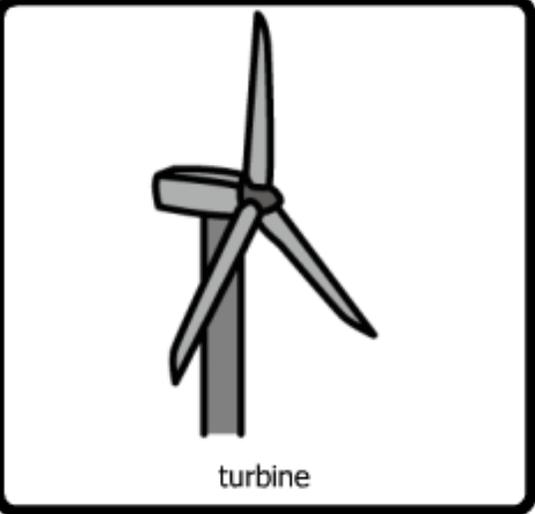
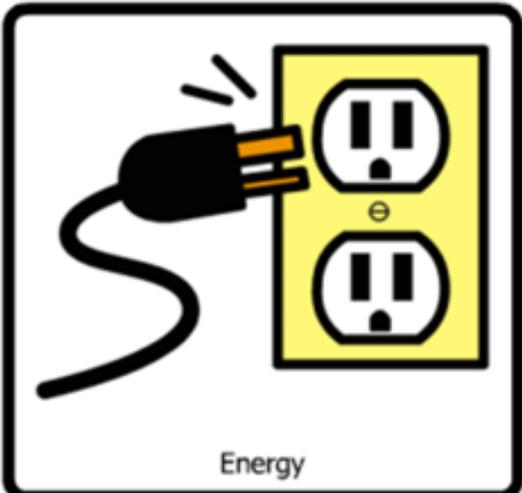


How does a win turbine work?

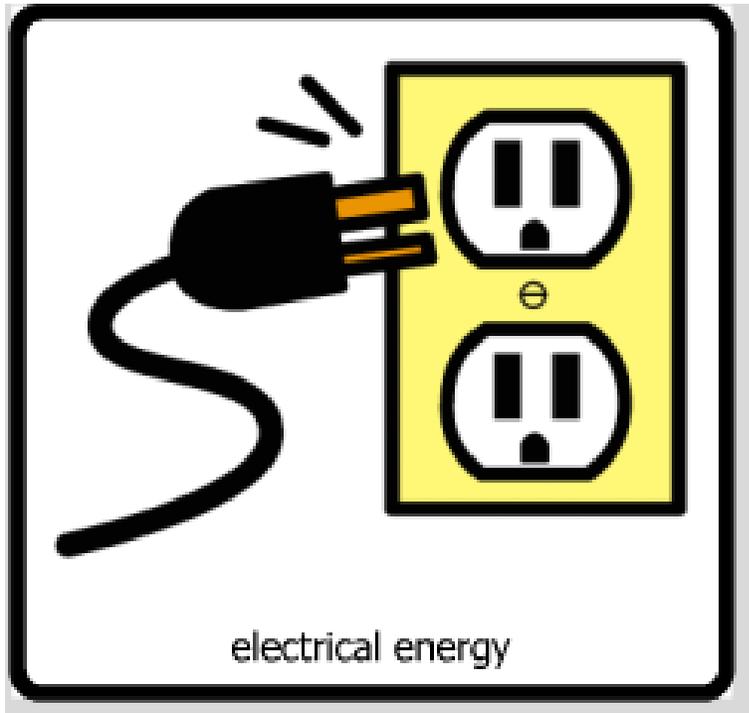
- When it is windy, the wind turns the propellers (blow into the pinwheel)



The energy from the turbine is stored inside



We can use that energy in our homes!



Wind Farms

Level D



by **Travis Schaeffer**

Illustrated by **Karis Thiel**

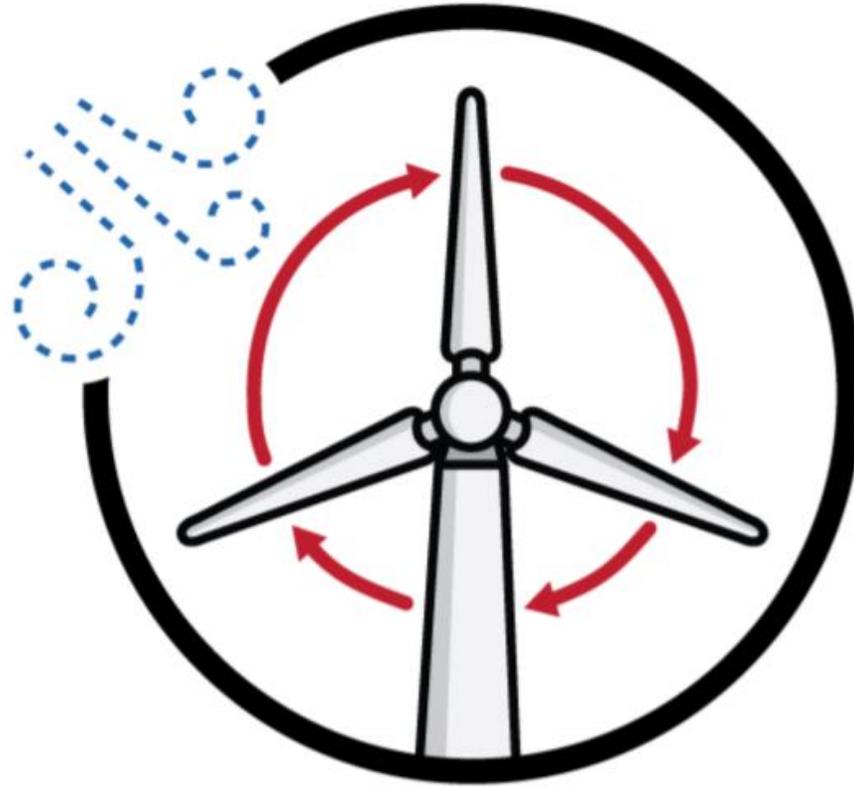
The Book



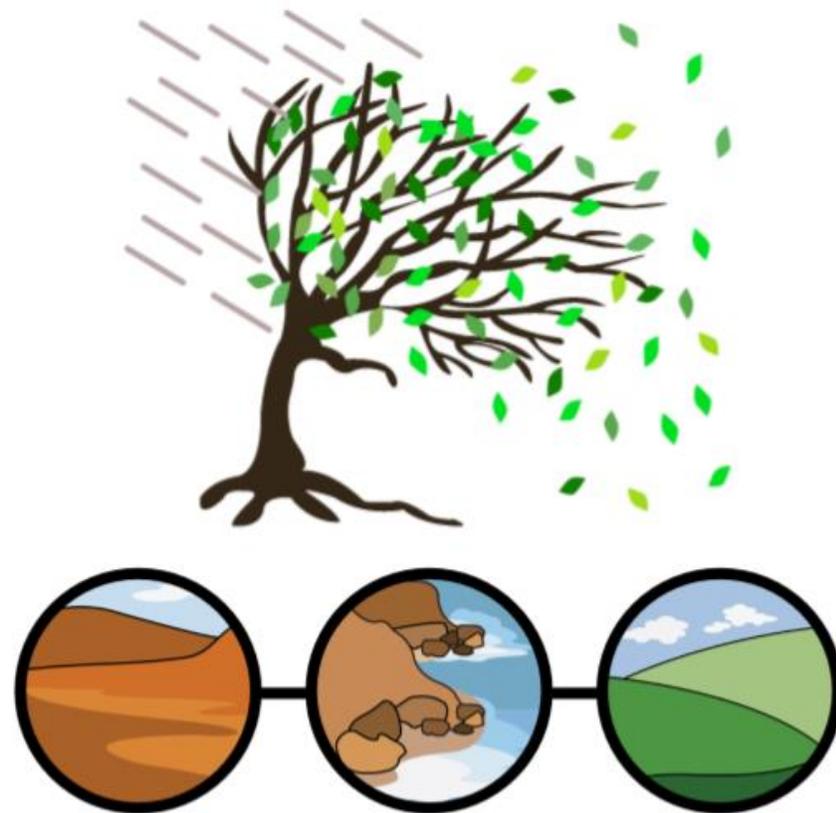
**Most farms have animals and crops.
These farms are not wind farms.**



**Wind farms have wind turbines.
These farms change wind into energy.**



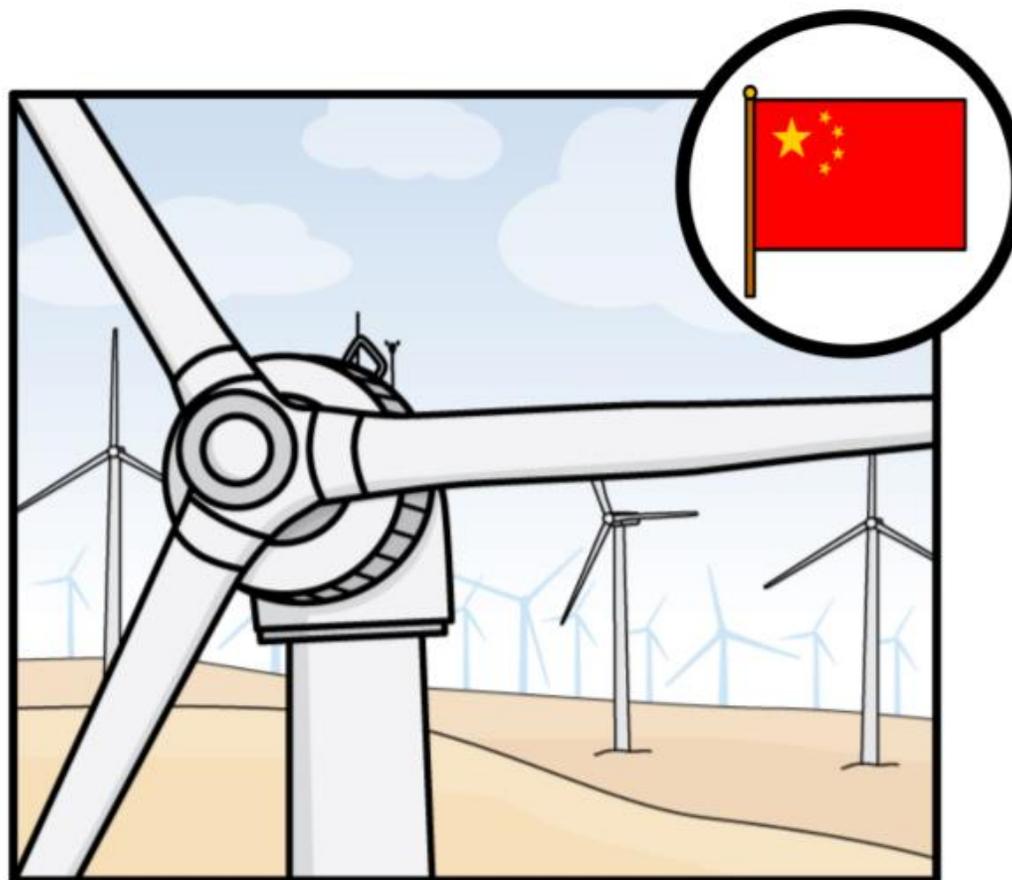
**Wind farms need a lot of wind.
More wind means more energy.**



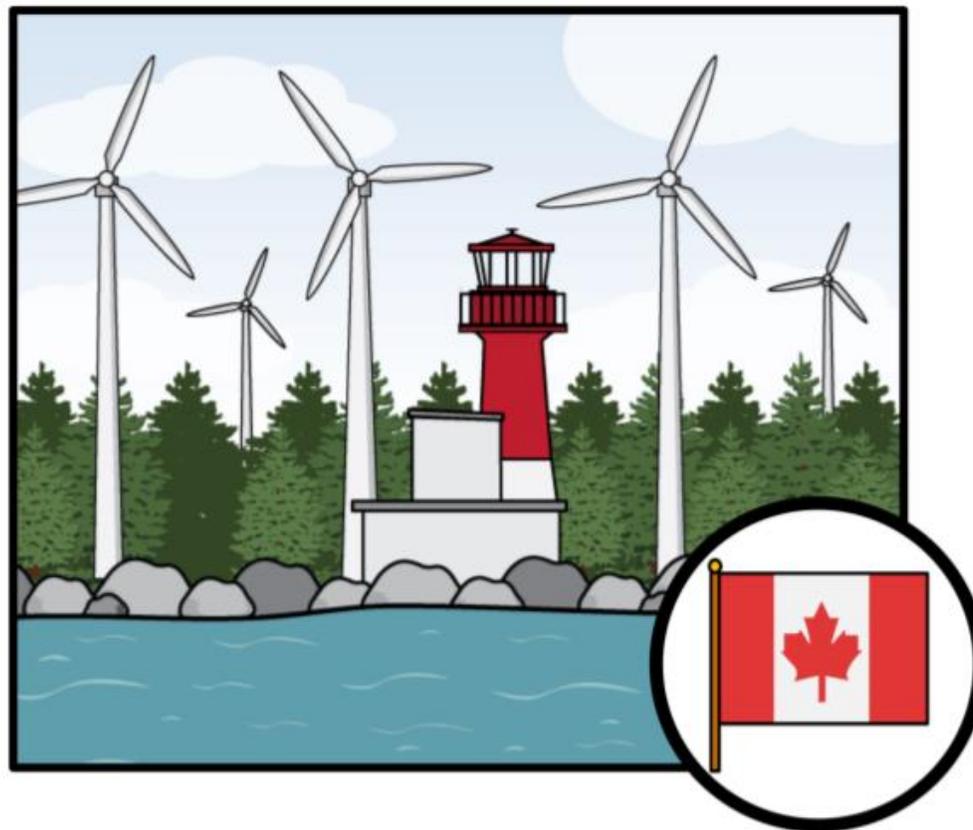
Deserts have a lot of wind.

Shores have a lot of wind.

Hills have a lot of wind.



**This wind farm is in China.
It is in a desert.**



**This wind farm is in Canada.
It is on the shore.**

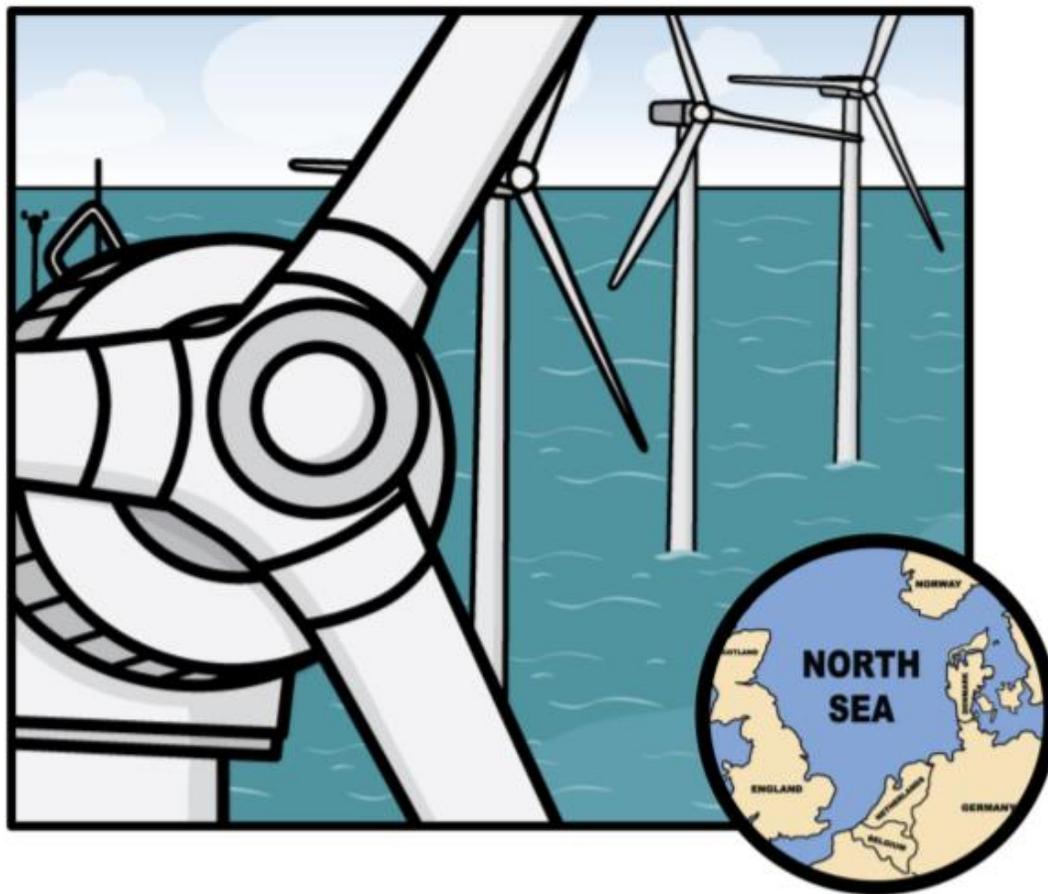


**This wind farm is in Australia.
It is on hills.**

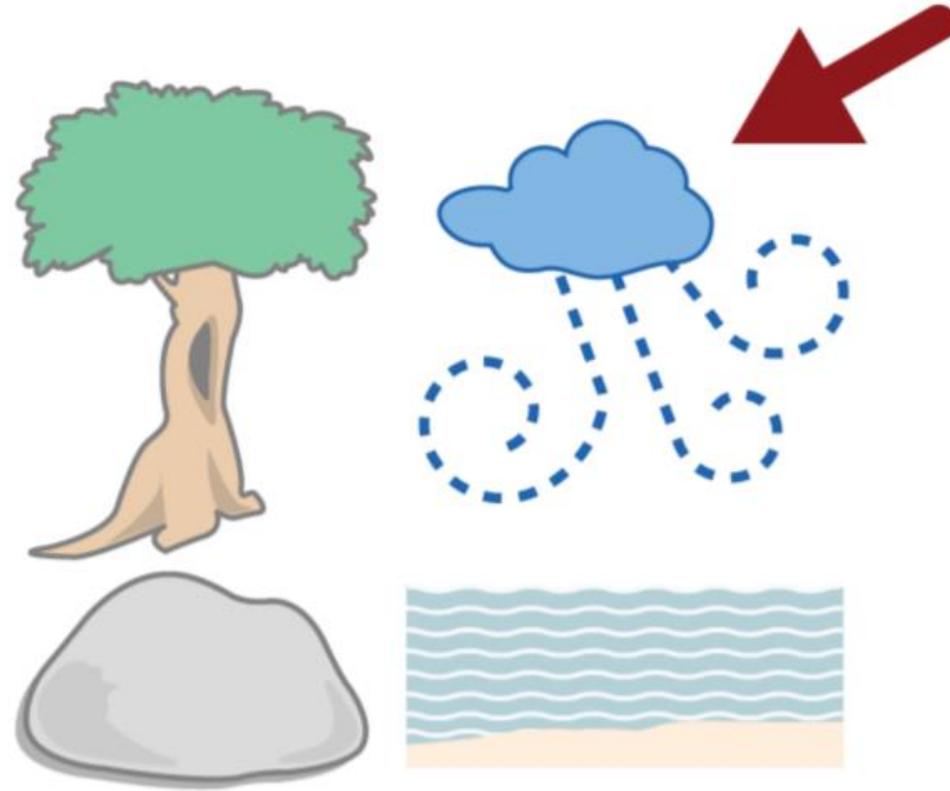


Seas have a lot of wind.

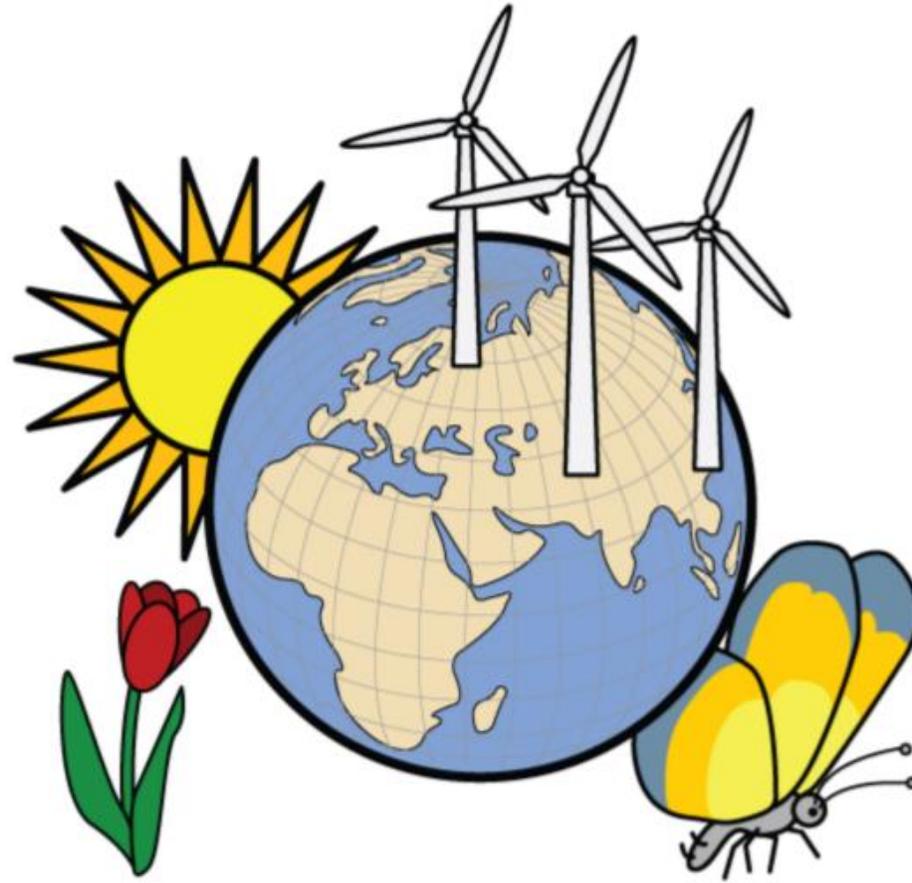
Wind farms can be in water too.



**This wind farm is in the North Sea.
It is in the water.**



**Wind turbines are a renewable resource !
They reuse the resource of wind.**



That is good for the environment.

Wind farms are good for our environment.

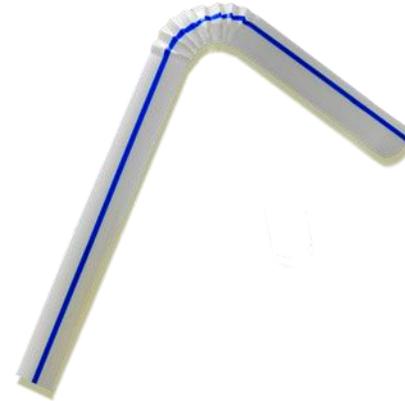


The End

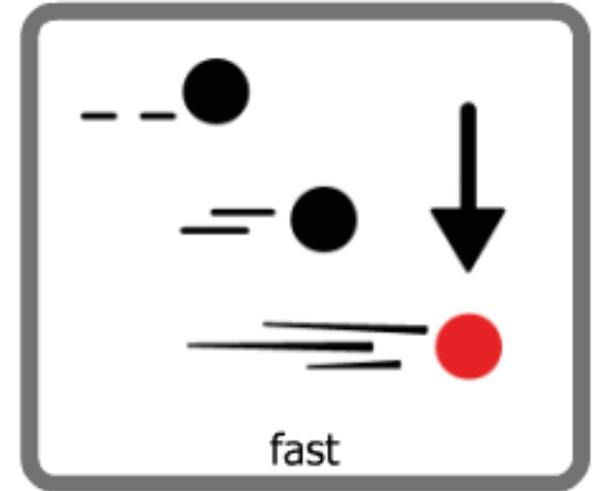
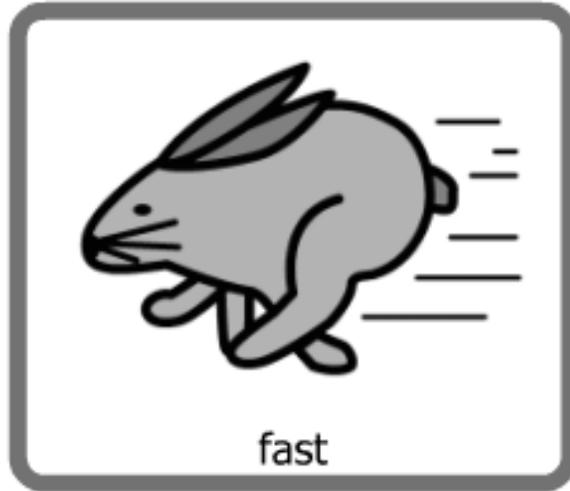


Wind Speed Experiment

Let's use pinwheels and straws to talk about wind energy.



Wind can blow fast or slow. Wind can cause things to move.



Find fast on device or use core cards.

We can make our own wind by blowing on a pinwheel.

Try blowing air on your pinwheel fast and slow. I will model this for you. Breathe in and out.



Now, let's get our tools ready. Take turns coming up to get a straw, cotton ball and marshmallows.



We will measure the time it takes to blow a cotton ball or marshmallow with a straw across our desk.



Try different strategies of blowing fast and slow. Are there different items that you see around the room that might move faster or slower that you can try? Compare your speed times with a friend.

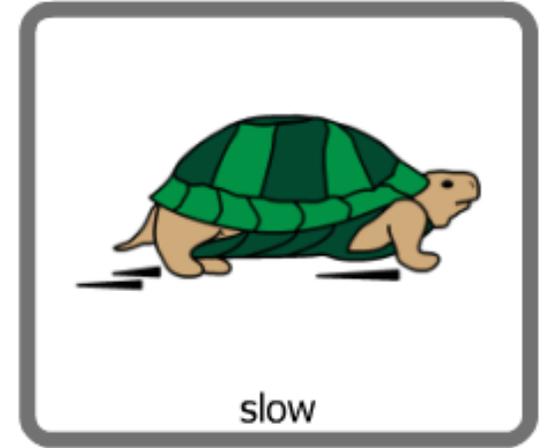
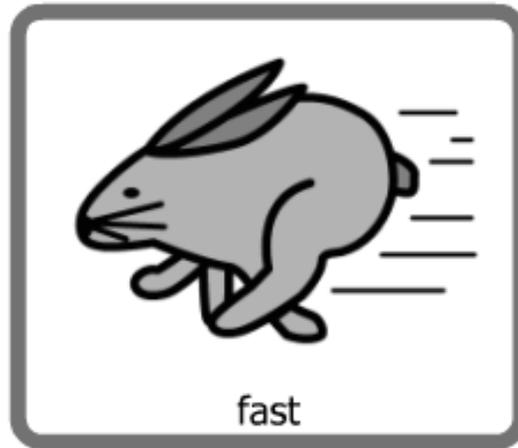
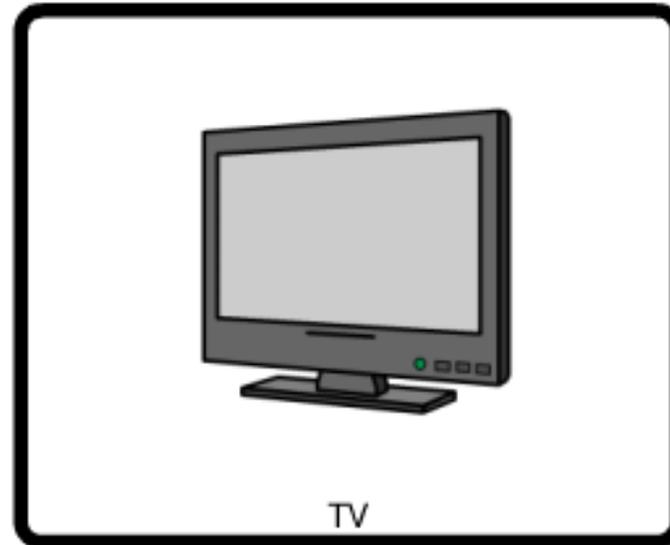
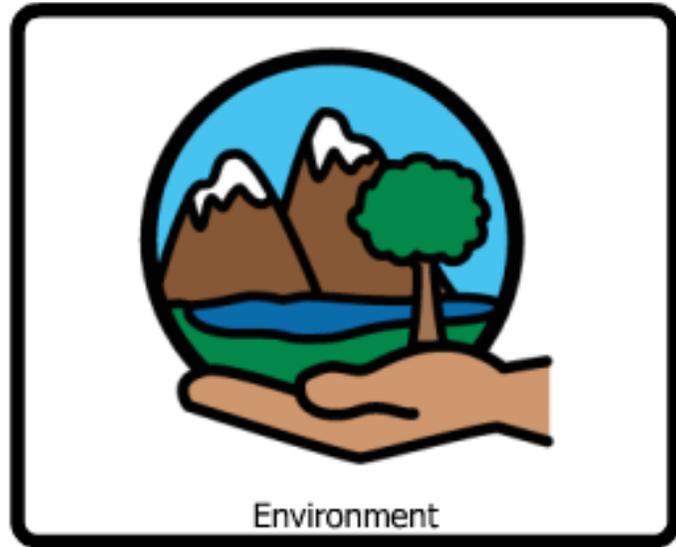


table or other items. Ask them which ones were “fast” and which ones were “slow” with core cards.

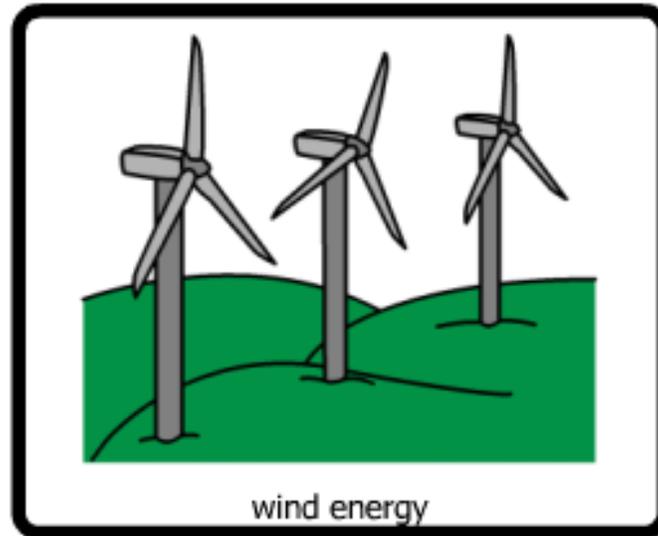
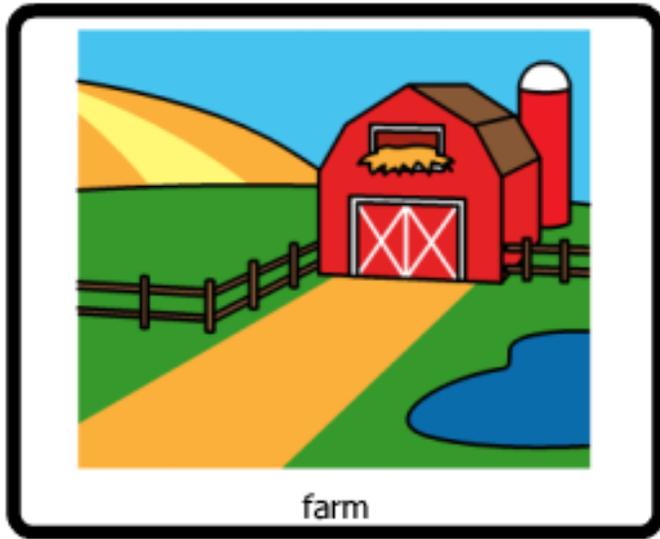
Quiz Questions from today:

1. Wind energy is good for



Quiz Questions from today

Which one looks like a wind farm?



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.

