

## THE CHALLENGE:



Wind power is a green energy that is generated from the wind. It is a renewable resource because there will always be wind on Earth. Wind turbines harness the power of the wind to make electricity.

Your challenge is to build an anemometer to measure wind speed and direction.

Check out [this site](#) for tips!

Think about how you could take this a step further!

~Create, Test, Improve.

~STEAM TEAM

Tag us with your creations on Facebook @STEAM in ASD-N and on Twitter @STEMNorth



#SDGs @connectSDGs  
#AffordableAndCleanEnergy

## Learning Activities

### Language Arts:

\*\*Check [here](#) for tips on journaling

Read more about Wind Energy from [The Need Project](#). Take notes in your journal and see if you can complete the [Wind crossword!](#)

Check out this [TED TALK](#) from William Kamkwamba, a 13-year-old boy who changed lives in his village by building a windmill. Search for information on another young person who is changing the world for the better.

### Numeracy:

The table below is the 2019 monthly average wind speed for Bathurst, NB measured by an anemometer in kilometers per hour.

Month	Avg. Wind Speed km/h
January	11.7
February	14.6
March	13.7
April	14.5
May	11.6
June	11
July	9.1
August	9.9
September	12.7
October	11
November	15.6
December	16.1

Find the mean, median, and mode.

Click [HERE](#) for help.

### Science/Social Studies:



*Mackerel sky, mackerel sky,  
never long wet, never long dry.*

Interview a grandparent or farmer or research 'Farmer's Almanac Proverbs'. Observe the clouds over a period of 5-7 days and record observations in your journal. See if the proverbs ring true!

**The Arts:** Wind can make some beautiful music! Make a wind instrument of your choice using materials around your house (Ex. Musical bottles, kazoo, pan pipes). Invent a beautiful tune and play it for your family!



### Earth Day Checklist

- Turn off lights
- Reuse
- Recycle
- Borrow
- Shorter showers
- Have a green thumb
- Start a compost bin
- Pick up garbage
- Use your bike
- Collect rainwater for your garden