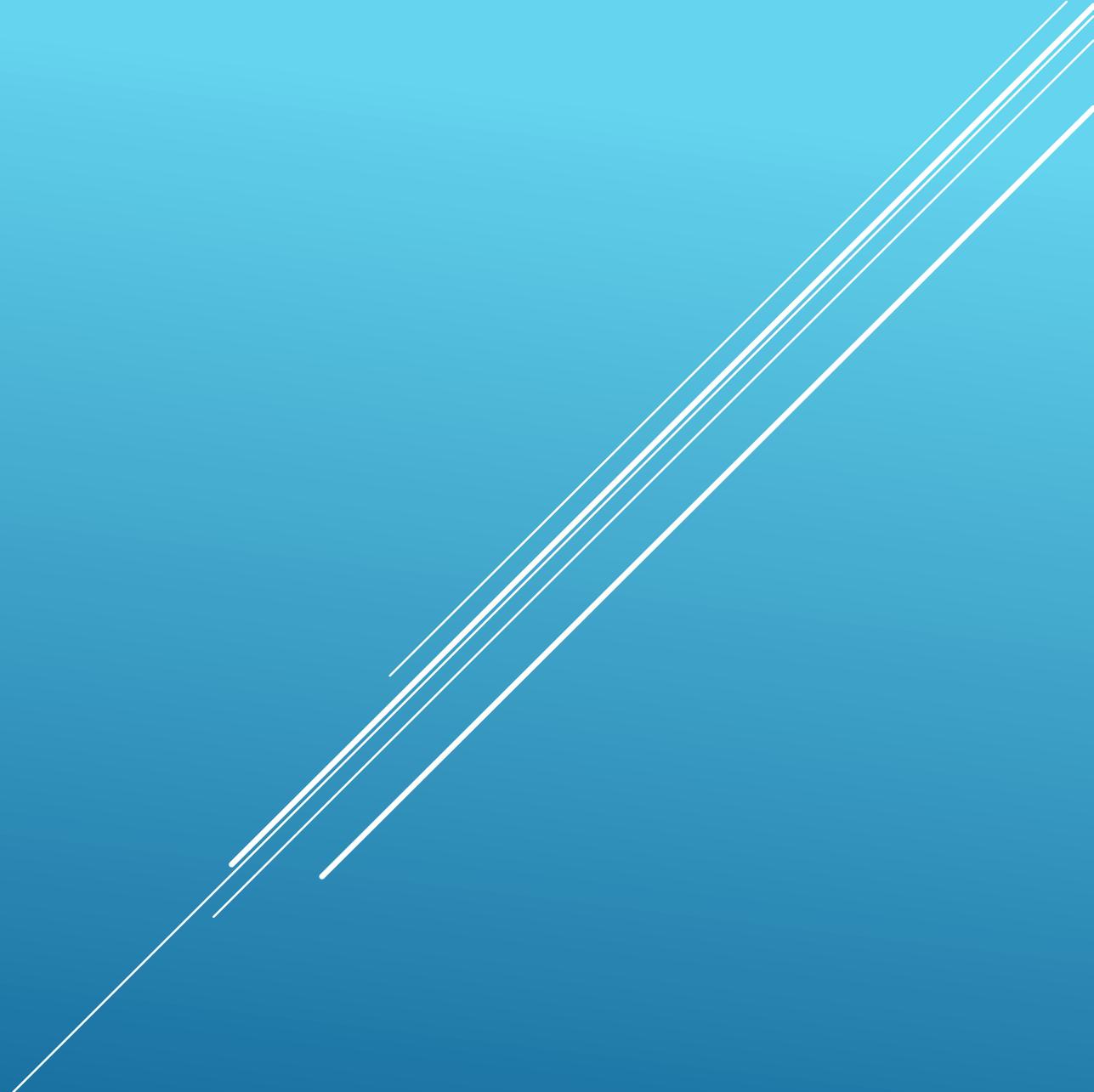


LIFT OFF

Monday 29th June, 2020



QUIZ TIME

- ▶ I'm used by teams of adults in competitions around the world.
- ▶ I'm often featured in poetry, legends, and folk tales.
- ▶ I originated in China at least 3,000 years ago.
- ▶ I was outlawed during the 18th century because I distracted shopkeepers from their duties?
- ▶ I have been used to pull boats, carriages, sleds, and ice skaters.
- ▶ I am a traditional New Year's gift for Japanese children.
- ▶ I have led directly to major scientific discoveries
- ▶ I helped make Benjamin Franklin, Alexander Graham Bell and Leonardo da Vinci, famous.



WHAT AM I?



Where it all began....

Historians believe that the first kites were built in China about 3,000 years ago, using materials, such as bamboo and silk. The earliest written accounts of kite flying were the exploits of the Chinese general Han Hsin, Han Dynasty (206 B.C.-220 A.D.)



At the time, they were widely considered to be useful for ensuring a good harvest or scaring away evil spirits.

<https://www.youtube.com/watch?v=RgOYcbbz1i0>

Throughout the years, as the popularity of kites spread from Asia to Europe and beyond, they became more widely known as children's toys and came to be used primarily as a leisure activity.



<https://www.youtube.com/watch?v=EBn8gKG-obs>

KITES HAVE DIRECTLY LED TO MANY GREAT SCIENTIFIC DISCOVERIES.

TASK

Select a famous person from the list below. Research their involvement with kites and the discoveries they made. Design a poster to record your information.

Benjamin Franklin

Leonardo da Vinci

Alexander Graham Bell

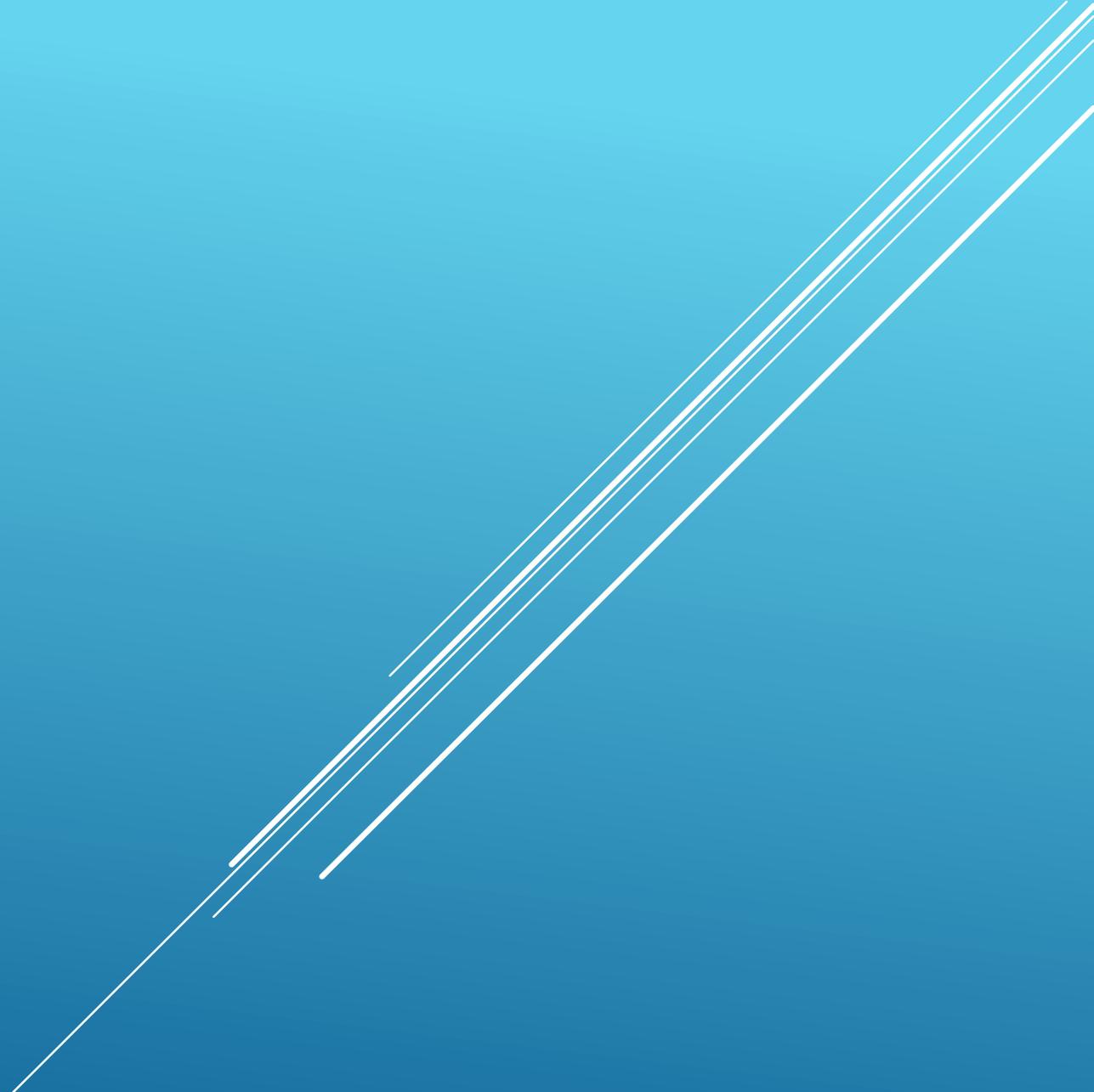
Guglielmo Marconi

Wilbur and Orville Wright

Homan Walsh

UP UP AND AWAY

Tuesday 30th June, 2020



WHAT'S THE SAME? WHAT'S DIFFERENT?



DID YOU KNOW?

Kite technology also led to the invention of the airplane, the parachute, and the helicopter. It may even have contributed to the U.S. victory during World War II. Sailors aboard the aircraft carrier USS *Block* used kites built by Lieutenant Paul Garber to practice shooting at moving targets and to pass important papers from ships to flying aircraft.

HOW DO KITES FLY?

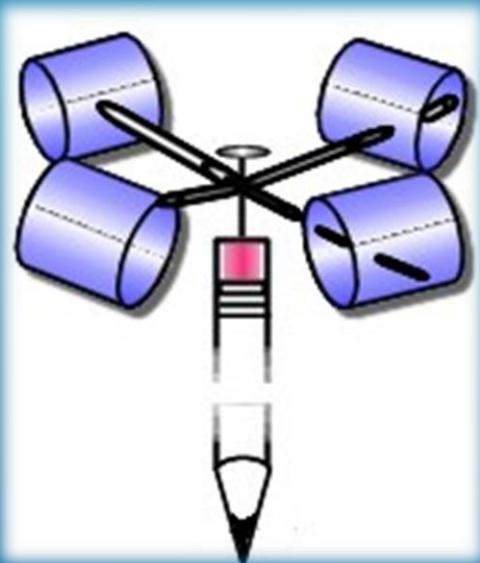


Wind is the horizontal movement of air. The instrument used to measure wind speed is called an *anemometer*, which is an indicator that will spin in the wind. The anemometer rotates at the same speed as the wind. It gives a direct measure of the speed of the wind. Wind speed is measured by using the Beaufort Wind Scale which is a scale of 0-12 based on visual clues.

Wind Speed (KmPH)	Term	Description
0-5	Calm	Smoke goes straight up
6-20	Light	Wind is felt on face; weather vanes turn, leaves rustle
21-39	Moderate	Raises dust; flags flap
40-61	Strong	Large branches move; umbrellas turn inside out
62 or more	Gale / Whole Gale	

Materials

4 small paper cups
4 plastic drinking straws
tape
scissors
straight pin
pencil with a new eraser
stapler



MAKE AN ANEMOMETER

Procedure

1. Arrange four (4) plastic drinking straws to form a cross and tape them together at the centre.
2. Staple the top side of one drinking cup to the end of each straw, so the open ends of the cups all face the same direction.
3. Push a straight pin through the centre of the straws into an eraser on the end of a pencil. This provides the axle.
4. Mark one of the cups; this will be the one they use for counting when the anemometer spins.
5. Blow on the anemometer or turn an electric fan on low to make sure that it spins easily.

How many times the anemometer will spin in one minute?

MEASURE WIND SPEED

PROCEDURE

1. Mount or hold the anemometer in a place that has full access to the wind from all directions.
2. When the time keeper says "Go", the counter in each group will count how many times the marked cup passes them in one minute and write it down.
3. If possible, repeat the above step four (4) times and record the average number of spins

	Time Interval	Number of Spins
1.		
2.		
3.		
4.		

NOTE: When using this anemometer, 10 turns per minute means the wind speed is about one mile per hour.

OFF AND RUNNING

Wednesday 1st July, 2020



IT'S TIME TO BUILD YOUR OWN KITE!

This term our theme is 'Express yourself'.

Keep that in mind when you are designing your kite !

You will need:

2 wooden sticks
String
Plastic bag
Tape
Ruler
Cardboard

Follow this step by step for more help!

https://www.youtube.com/watch?v=mc3AUuuj9_I

Fancy a challenge?

<https://www.youtube.com/watch?v=VbBj8mu1phc>

LET'S GO FLY A KITE

