

KNOW ALL ABOUT

WIND

the
Air
in a
HURRY!



Terrapin



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WIND



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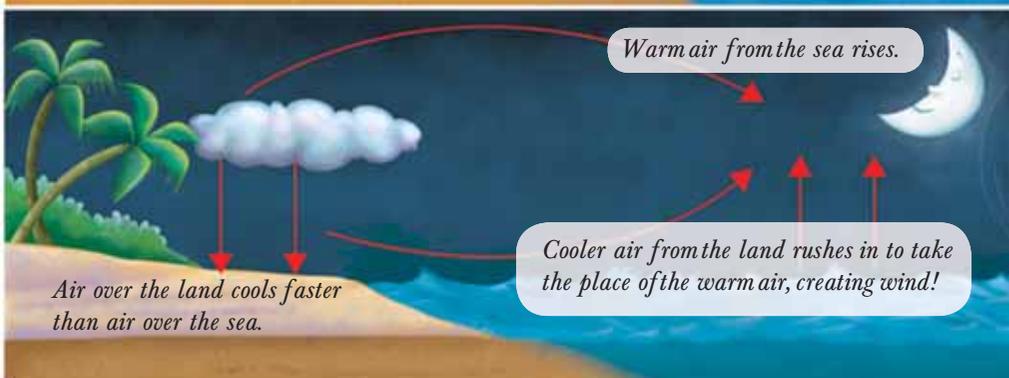
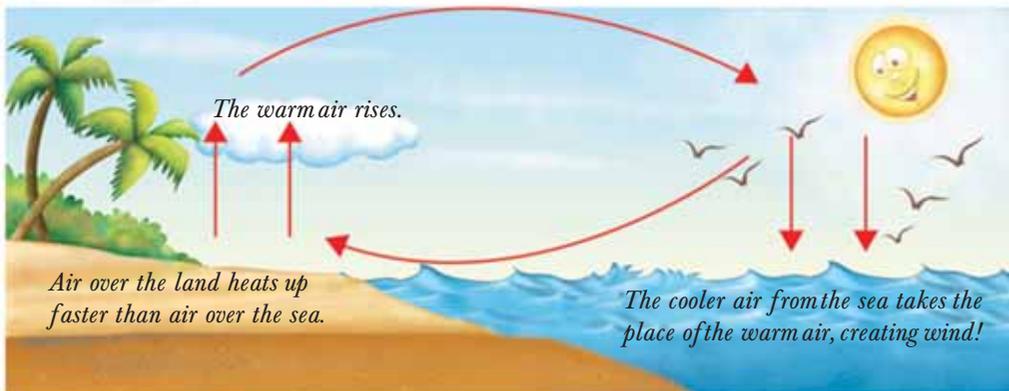
HURRY, AIR, HURRY

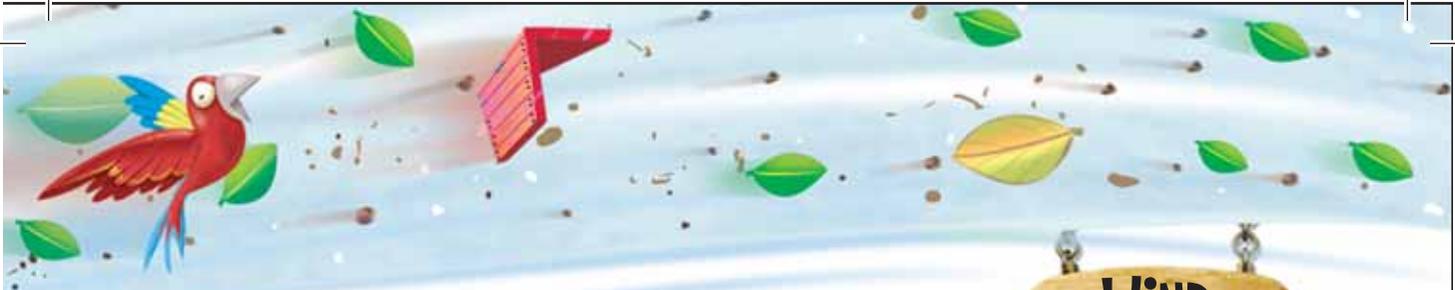


You can feel it but never see it.
Sometimes hear and sometimes smell it.
Try to hold it, and there's nothing there,
And yet, you see, it's everywhere!
What is it?
It's the wind!

Wind is simply air in motion. It is air that's always in a hurry!

HOW WIND IS FORMED



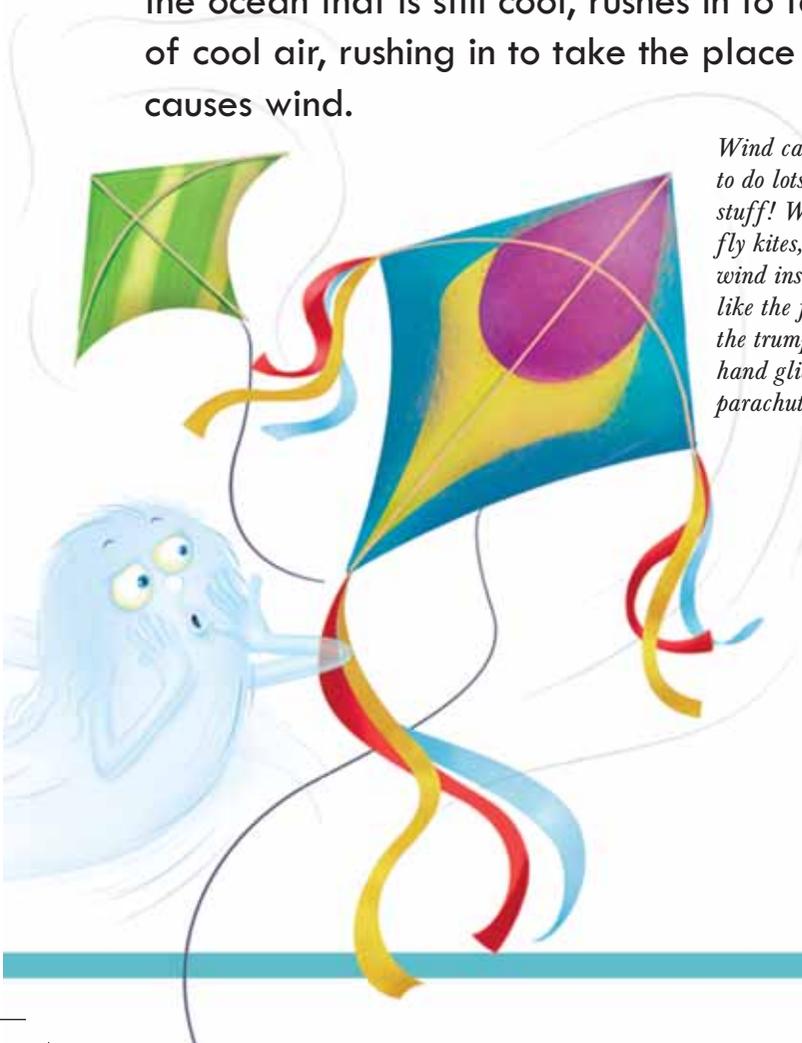


Where does the wind blow from?

It is the Sun, land, and water that come together to create wind. During the day, when the sun shines, it heats up the land. But as the earth is made up of different types of land (like the desert or the mountains), some types get heated faster than others. Water heats up last, so the air over the ocean remains cooler than the air over land.

A windy story

As the air over the land gets heated, it starts rising. The air over the ocean that is still cool, rushes in to take its place. This movement of cool air, rushing in to take the place of the warm air, is what causes wind.



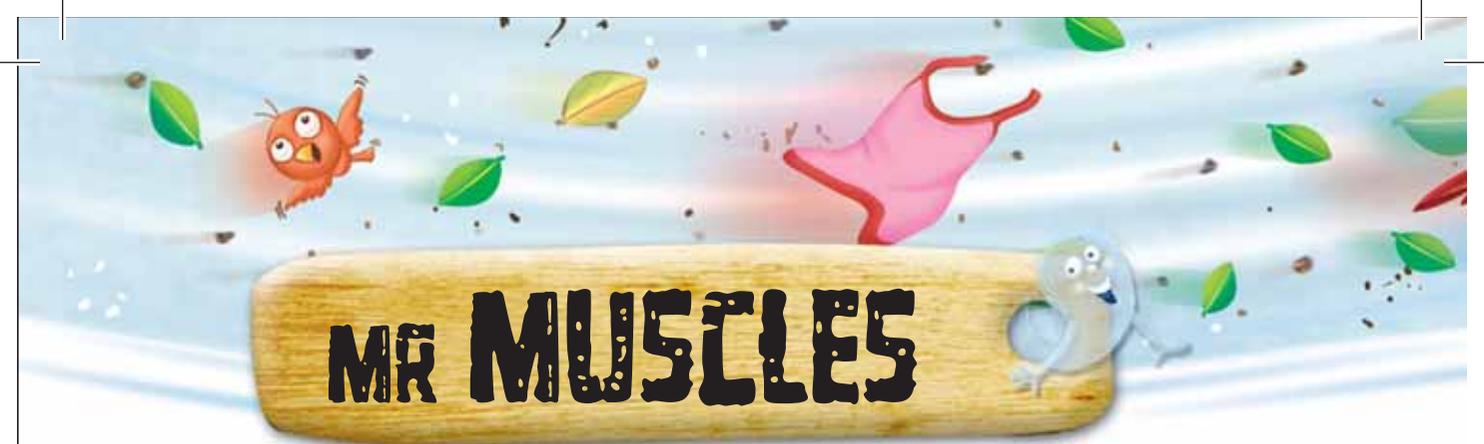
Wind can be used to do lots of fun stuff! We can fly kites, play wind instruments like the flute or the trumpet or go hand gliding and parachuting!



FUNNEE



The ancient Greeks thought that wind was the earth breathing in and out!

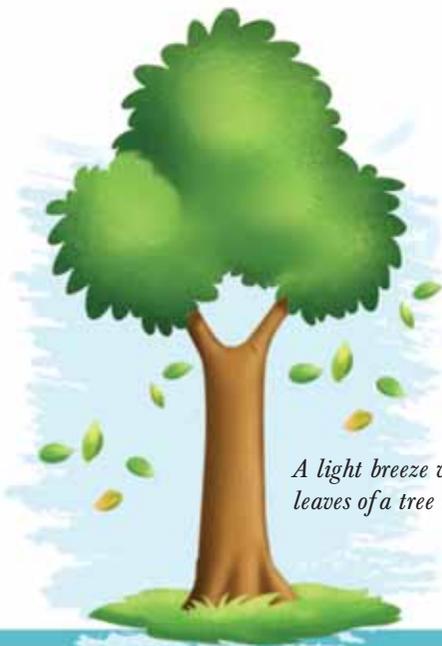


MR MUSCLES

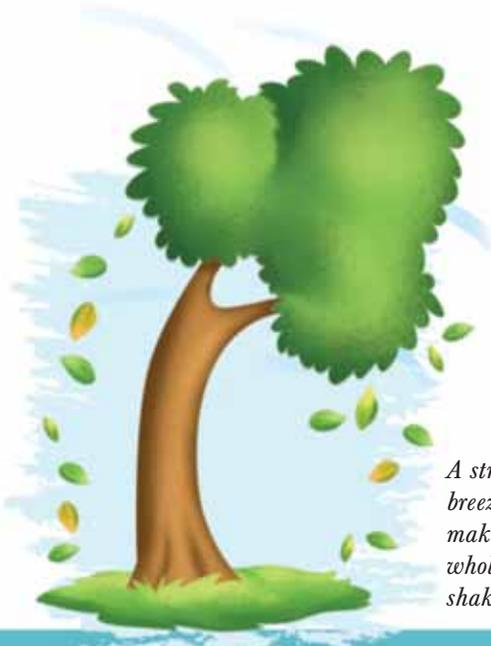
The strength of wind depends on how fast heated air rises. If it rises quickly, the wind is strong. If it rises slowly, we have light, gentle breeze.

Is it breeze...is it a storm?!

Wind is called breeze, gale, or storm according to its speed. If you look outside and see the leaves on a tree moving gently, you can call it a light breeze. If the whole tree is shaking, then it is a strong breeze. When branches from the tree start breaking off, we have a gale. And gosh! If the whole tree falls down...then it is a storm!



A light breeze will make leaves of a tree rustle.



A strong breeze will make the whole tree shake.

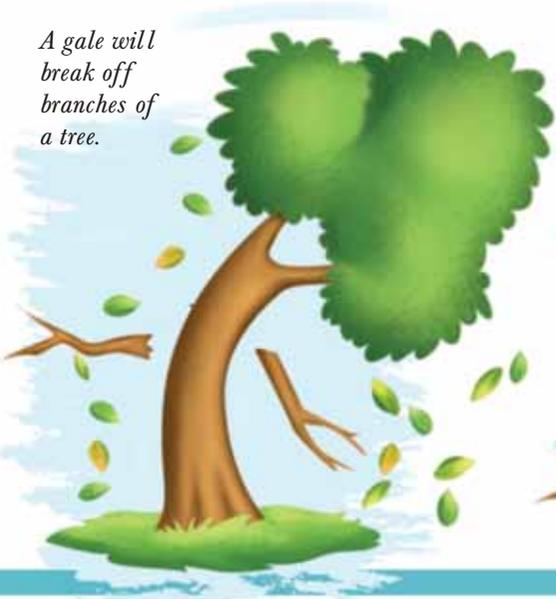


WIND:
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4-5

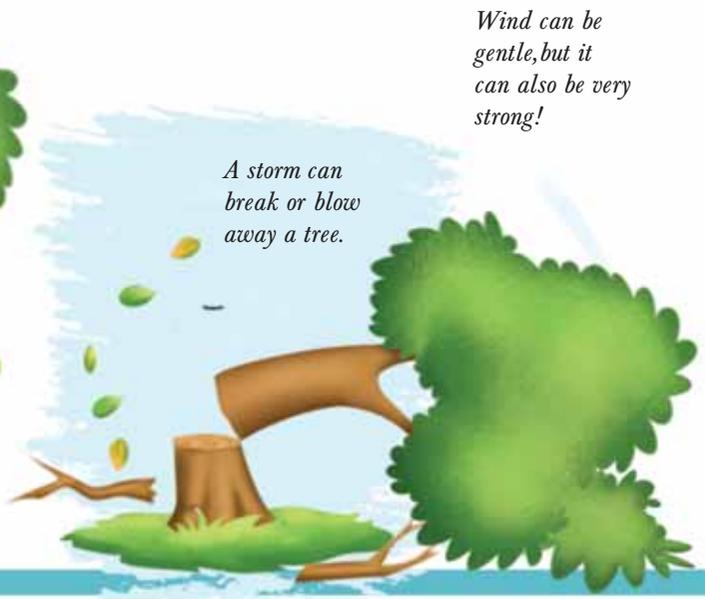
DiD You KNOW ?
The wind is strongest in Antarctica. Here it blows at speeds of more than hundred kilometres per hour for five months of the year!

Setting the standard

Around 1806, Sir Francis Beaufort, a commander in the British Navy, created the Beaufort scale. It measures the wind according to its strength. Now, sailors all over the world know that a Force 10 on a Beaufort scale means a storm, but a Force 12 warning means that a hurricane is approaching!



A gale will break off branches of a tree.



Wind can be gentle, but it can also be very strong!

A storm can break or blow away a tree.



In its strongest form, wind can be either a hurricane or a tornado. Hurricane winds can reach speeds of up to three hundred kilometres per hour!

How hurricanes happen

Sometimes, in warm humid areas, when the sea gets very hot, warm air starts rising rapidly. Cool air rushes in equally fast. If the air rushing in is blowing in the same direction and at the same speed, it pushes the warm air upwards at great speeds, often forming massive clouds. These clouds can spin out of control, and swirling winds over the sea start moving towards the coast.

When wind gets very strong, it can get very dangerous. In its strongest form, it can be either a hurricane or a tornado.

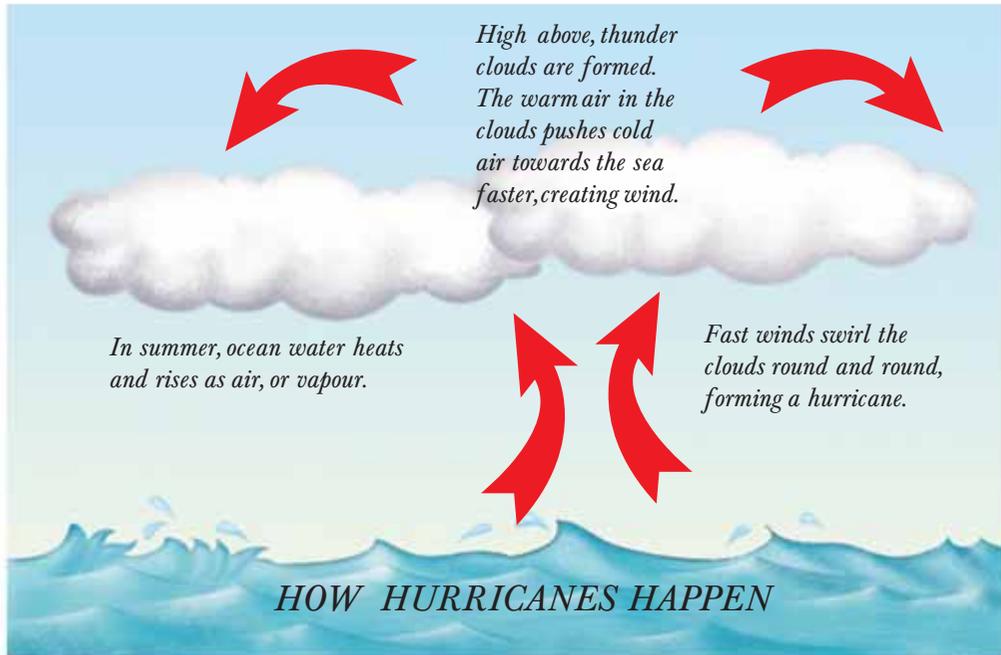




OOH, IT'S THE STRONGEST ONE!

WIND:
THE aiR IN a HURRY
6-7

Hurricanes usually occur in summer or autumn, when the ocean water is warm enough.



Run!

Combined with heavy rain and flashes of lightning, these strong winds and huge waves can cause great damage to both sea life and people. The fierce winds batter trees and can bring down buildings.



BELIEVE IT OR NOT



Indians refer to hurricanes as cyclones. In Japan, they are called typhoons. In Australia, they are known as willy-willys!



TORNADOES ... TERRIBLE TWISTERS!

Both tornadoes and hurricanes have whirling winds and can sometimes look the same. However, hurricanes start from the sea and move towards the land, while tornadoes begin from the sky and stretch down towards the ground.

Sucked in!

Tornadoes occur when hot, moist air in the atmosphere comes into contact with cool dry air.

This, sometimes, creates a funnel-shaped cloud that rotates violently as it stretches down from a massive thundercloud. It hits land with a loud roar and continues to move along the ground, pulling in everything that comes

in its path. Tornadoes can lift cars, destroy buildings, and even overturn trains!

FUNNEE



Do you know the story of “The wonderful wizard of Oz”? Yes, it was a tornado that carried Dorothy and her dog away from her home to the land of Oz.



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