



[Credit: Wikimedia Commons]

What do you think? *[Teachers/parents guidance may be required]*

Hurricanes, cyclones, and typhoons are all the same weather phenomenon	True	False
Tropical cyclones that form over the Atlantic Ocean or eastern Pacific Ocean are called "hurricanes"	True	False
Hurricanes rotate in a clockwise direction around an "eye" in the Northern Hemisphere & counter-clockwise direction in the Southern Hemisphere.	True	False
The center of the hurricane or "eye" is the most turbulent part	True	False
Hurricanes never cross the equator, nor do they occur near it	True	False
The Great Red Spot is a gigantic storm in Mars and is twice as wide as Earth	True	False

Checkout the **Hurricane** exhibit.

*[Teachers/parents guidance may be required]*

- Step into the tube & shut the door.
- Experience the hurricane.
- Take note of the wind speed reading near the top of the tube & compare the intensity of the wind as it increases.

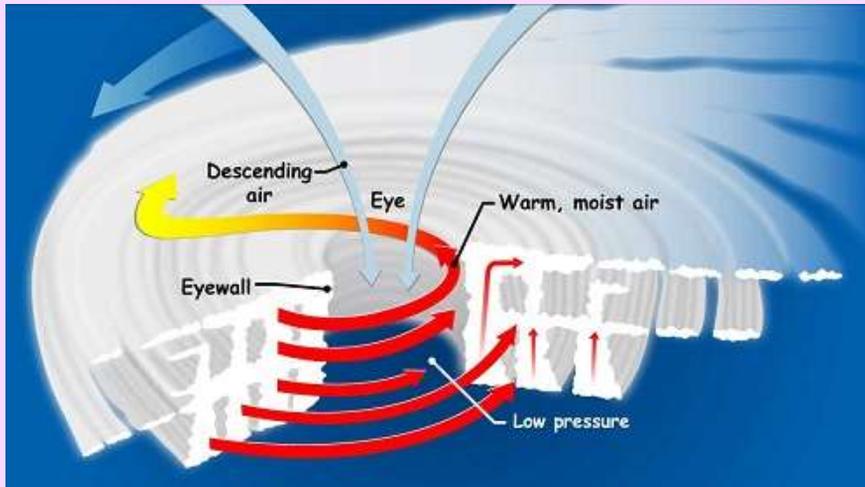
**\*\*\*Hold on to your skirt or headscarf – the wind is going to be very strong!**

- How did you feel as the wind speed increased? How did your body react to it?
- What type of environmental destruction do you think may occur if a hurricane is moving at 160 km/h?
- Most of us know how earthquakes are classified. How are hurricanes classified?



## DO YOU KNOW?

- Some planets in the solar system have large hurricane-like storms e.g. Jupiter, Neptune & Saturn.
- Jupiter's Great Red Spot storm has been raging continuously for at least 180 years.
- Neptune's South Pole cyclone is thousands of kilometres wide.
- Hurricanes on Earth are fueled by the heat & moisture of the oceans; water being an important ingredient.



[Credit: NASA]

- Jupiter, Neptune and Saturn don't have oceans, so their spinning storms aren't "hurricanes" in the strict, Earth sense. But similar processes spawn them.

A hurricane is categorized by its wind speed using the *Saffir-Simpson Hurricane Scale*.

Category 1	119-153 km/hr	Faster than a cheetah.
Category 2	154-177 km/hr	As fast or faster than a baseball pitcher's fastball.
Category 3	178-208 km/hr	Similar, or close, to the serving speed of many professional tennis players.
Category 4	209-251 km/hr	Faster than the world's fastest rollercoaster.
Category 5	More than 252 km/hr	Similar, or close, to the speed of some high-speed trains.

[Credit: NASA]

## TO EXPLORE

Watch these!

- Hurricanes 101 <https://youtu.be/zP4rgvu4xDE>
- Why Jupiter Has a Giant Red Spot | How the Universe Works <https://youtu.be/499R500kHOs>
- Cyclone on Saturn <https://youtu.be/Z9ilw4OQNxc>
- Voyager 2 at Neptune <https://youtu.be/COI5LBpvDyU>

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