Extreme Earth

Learning Objective:

To find out about extreme weather conditions across the world.





For many parts of the world, weather changes very little. It can be hot or cold, wet or dry, windy, snowy, icy or foggy but these changes are simply the changes you would expect to see with the seasons.

However, freak
weather
occurrences can
happen anywhere
in the world and
some places
frequently have to
endure extreme
weather.





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Lightning

This creates static electricity and makes parts of the cloud become Lightning occurs in storm clouds when ice and water rub together. charged. The charge is eventually released as a fork of lightning Lightning is one of the most dramatic weather phenomena. that shoots down to Earth or as flashes in the clouds.





Did you know that thunder comes from lightning? Thunder is the sound lightning makes but we hear thunder after we see lightning because light travel faster than sound.



Lightning will always look for objects closest to them to strike. This means anything sticking up from the ground such as mountains, buildings, trees or people.

Did you know that around 400 people every year are struck by lightning?



Tropical Storms

These storms develop in tropical areas of oceans and are called Tropical storms can be some of the fiercest storms on Earth. different things depending on where they are. Hurricanes, typhoons and cyclones are all types of tropical storms.

The middle of the storm is called the eye. The eye is an area of calm This picture shows a tropical storm from space around which the storm rages



The warm air in tropical regions, mixed with ocean currents and high sea temperatures, cause small thunderstorms which gather energy from the heat and make the storms become more powerful.







Tropical storms in the Pacific Ocean are called **typhoons.**

Tropical storms in the Atlantic Ocean are called hurricanes.

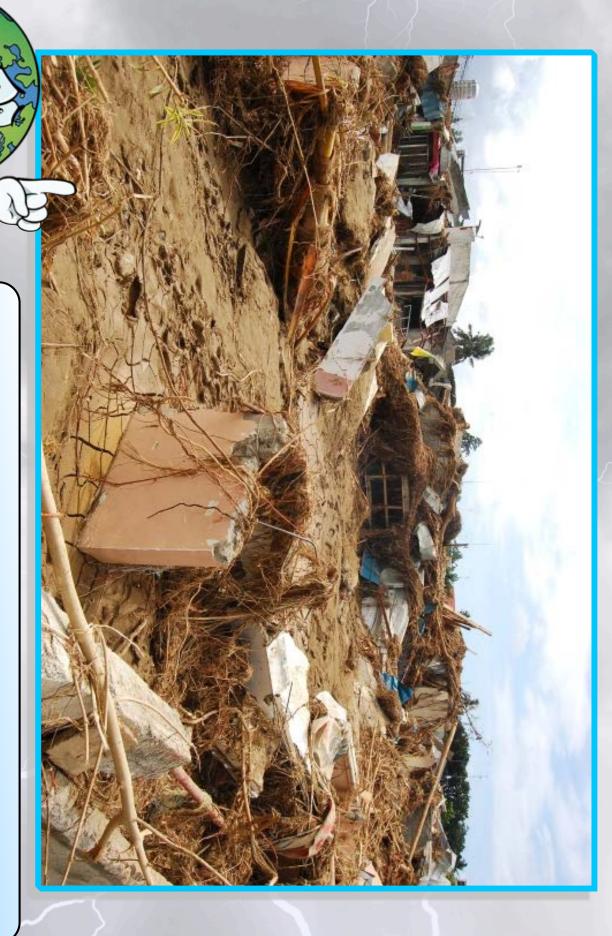
Tropical storms in the Indian Ocean are called **cyclones.**



cause devastation. High waves, strong winds and heavy When a hurricane, cyclone or typhoon hits land, it can rain can batter the land and destroy buildings. They cause a danger for people too.





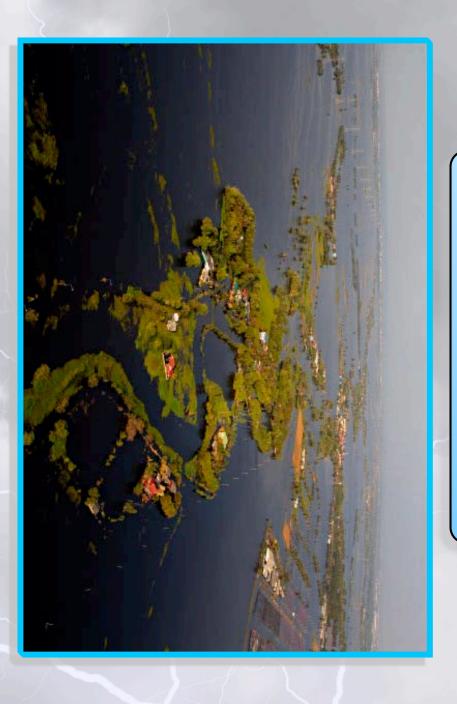


This picture shows the damage caused by a typhoon. **What can you see?**

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Floods

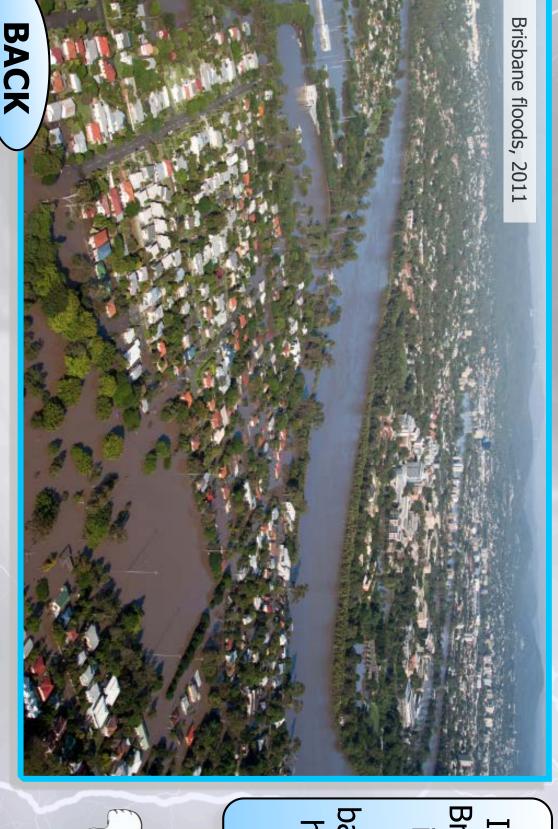


tropical areas due to the frequency of tropical storms but they disease. As well as destroying crops and buildings, they also Flooding is the biggest natural disaster on Earth, besides carry the biggest death toll. Floods are more common in can happen anywhere in the world.

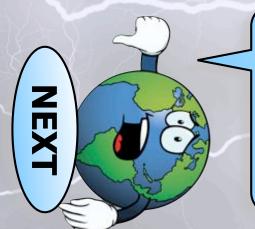




in areas where the rain has nowhere else to go. Areas on Floods can occur when there is more rainfall than usual. This can make rivers burst their banks and cause floods the coast can be flooded after a sea storm too.



In 2011, the Brisbane River in Australia burst its banks. 20,000 homes were flooded.



Hail Storms

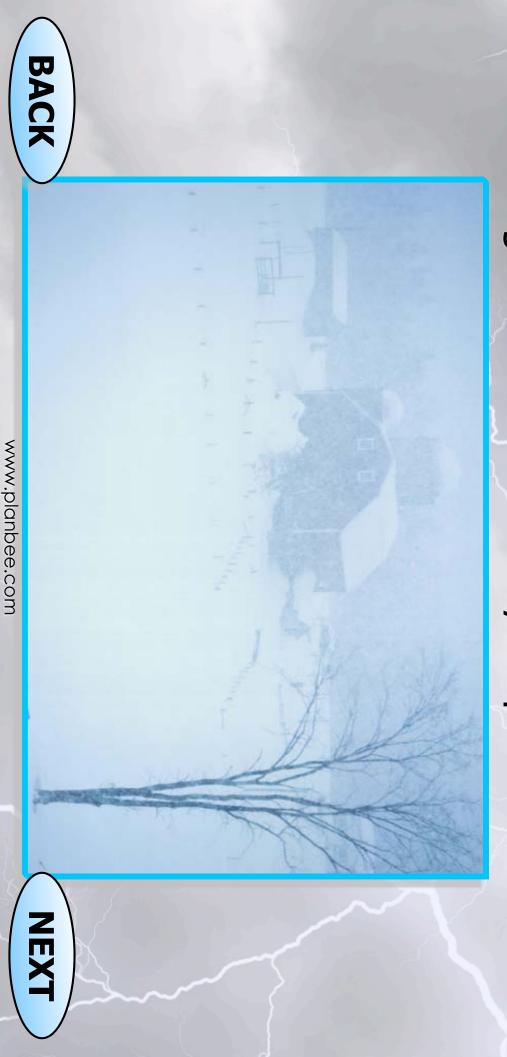
balls of ice fall as precipitation. Some hailstones are small but destroy crops and cause damage to cars and buildings. They some can measure up to 12cm in diameter. Hailstorms can Another example of extreme weather is hail storms where will also hurt a lot if you get hit by them!



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Blizzards

blizzards, winds can blow up to 50mph. The strong wind Blizzards are severe winter storms. Blizzards have high and driving snow make visibility drop to almost zero. winds, low temperatures and heavy snow. In severe



dropped around 61cm of snow with winds faster than Blizzards can occur very quickly, catching people offguard. In 1967 in Midwestern America, a blizzard 50mph. The storm left 76 people dead.

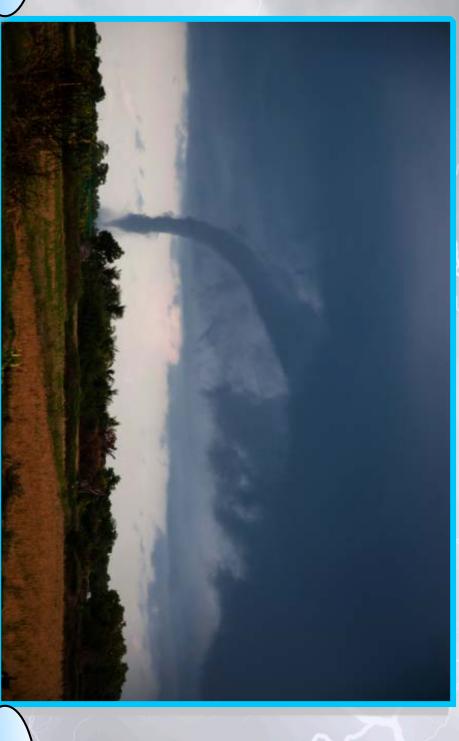




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Tornadoes

rises upwards, spiralling as it does so to create a funnel. A tornado (or twister) is a spiralling funnel of air which warm air is drawn in at the base of the cloud. It then descends from a storm cloud. They are formed when





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Tornadoes are vicious and destroy anything in their path. The strongest tornadoes can reach speeds of 300mph and can be up to a kilometre wide. They can pick up buildings, people, animals, cars and trees

