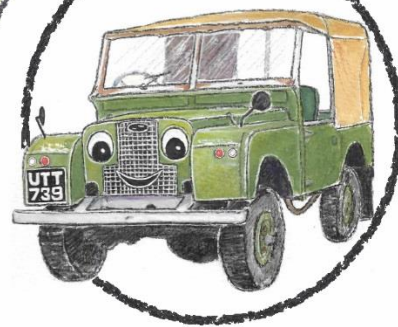


# Learning with Landy

## Thunder Storms

### How Storms Happen



While everyone else was tucked up in their homes, Landy was outside in the storm, feeling miserable. First, he saw lightning flash across the dark sky and then loud crashing thunder!

A storm can happen after hot weather.

The warm air rises into the clouds and moves around, making the rain particles up there, bump against all the icy bits which are in the top of the clouds.



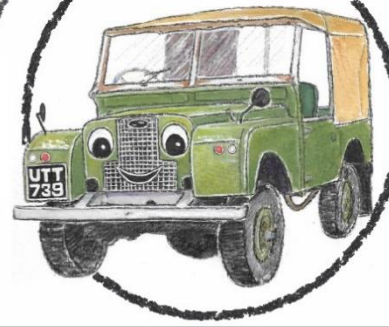
**This rubbing up against each other, creates electricity!**

These flashes of electricity in the sky, are called lightning. Most lightning just shoots around the clouds and we don't see it. But sometimes it strikes through a cloud and shoots down to the ground, in a channel. This bright flash of lightning is only as wide as your finger, but hotter than the sun!

The lightning bolt heats up the air channel which then explodes and collapses. This is what makes the noise we hear as thunder.

# Learning with Landy

## Thunder Storms How Storms Happen



You always see lightning before you hear thunder because light travels much faster than sound through the air. So, you will always see the flash before you hear the crashing sound.

This is the way to work out how far away a thunder storm is:

When you see lightning, start counting slowly 1, 2, 3, 4, 5, 6...

Stop counting when you hear the thunder. Now divide that number of seconds by 5. Your answer will tell you how many miles away the storm is.

If you counted up to 15, the storm would be 3 miles away.

If you counted up to 10, the storm would be 2 miles away.

If you counted up to 19 the storm would be nearly 4 miles away.



### Safety Warning:



- Lightning is very dangerous, but you are safe inside your house or inside a car that has a hard roof.
- If you are caught outside, do not stand under a tree!
- Lightning sometimes hits tall trees or poles.
- Stay away from water and don't use taps.
- Don't use electrical items that are plugged in.



Learning  
with  
**Landy**

Thunder Storms

Design a Safety Poster!



Draw a poster to show how to stay safe in a thunder storm: