



A scientific explanation

Here is a scientific explanation of the causes of thunder and lightning.

Thunder and lightning

Thunderclouds are huge and awesomely powerful. Very big thunderclouds tower 16 km (10 miles) or more into the air and contain enough energy to light a small town for a year. No wonder then, that they can unleash such devastating storms.

It takes very strong updraughts of air to build such huge and powerful clouds, which is why they tend to form along “cold fronts”, or over ground heated by strong sunshine. Violent air currents sweep up and down outside the cloud, tearing the water droplets and ice crystals apart and then crashing them together again. These collisions load the cloud particles with static electricity – just as rubbing a balloon on a [sweater] does. Lightning is the sudden release of the charge built up on millions of particles within the thundercloud.

A flash of lightning cldden bud.



This page features a scientific explanation of thunderstorms. Point out to your child that this explanation is not more “correct” than the myths, but is a different type of writing. Any suitable alternative words are acceptable as answers to the last question.