

Thunder and lightning occur at the same time. It just seems like you see the lightning first because light moves faster than sound.

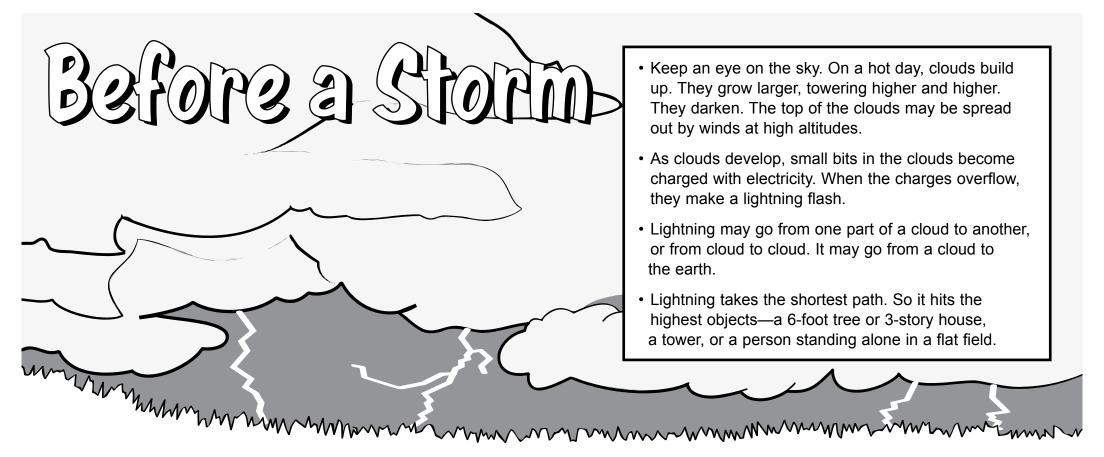
As soon as you see lightning, count the seconds until you hear the thunder. If you count 5 seconds, the lightning was about a mile away. Sound goes about 1000 feet a second. In the metric system, if you count three seconds to hear thunder, the storm is about a kilometer away.

If you see lightning and hear thunder at just about the same moment, watch out. The storm is right above you.

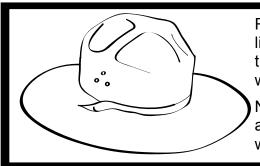
Lightning is a killer. It strikes people directly. It also starts fires that kill many people and animals.

Sometimes when it's stormy, you don't see any streaks of lightning, but the sky lights up occasionally. It means the storm is very far away, too far for you to see the streaks, and perhaps so far you don't hear any thunder either.

Lightning can do strange things like make a tree explode. Lightning heats the sap in the tree trunk. The sap changes to steam. The steam expands and blows up the tree. In a herd of cows, one of a dozen might be struck. The others may be untouched. Lightning can also kill a whole herd.



Lightning may hit the same place or person several times.



Ray Sullivan, a retired National Park Ranger, was hit 7 times by lightning. He has been knocked down, picked up and thrown into the air. He has lost his shoes and a toenail, and he can't hear as well, but at least he's still alive.

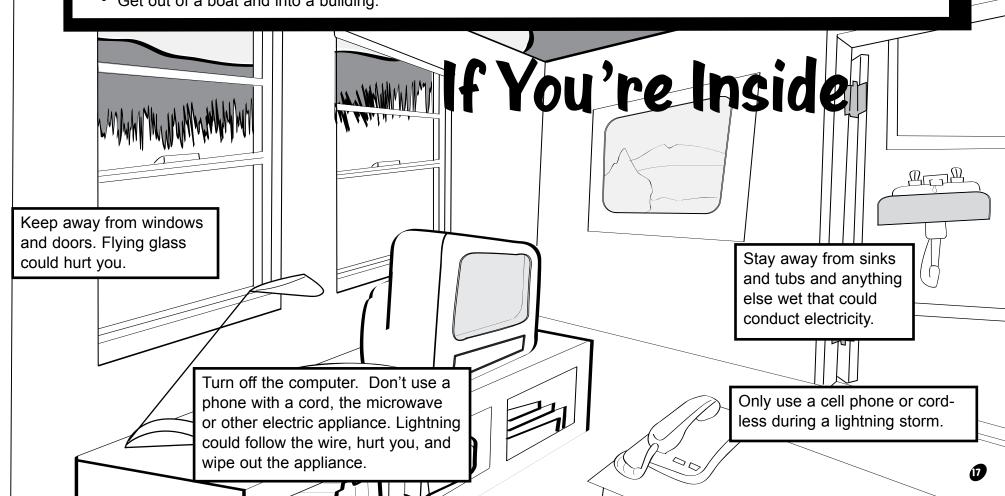
Now he lives in a mobile home with lightning rods on each end and lightning rods on trees around his home. Hopefully, lightning will follow the rods and leave Ray alone.



- Get into your home or a large building.
- · Get inside a hard-topped car.
- If you are in a field, run to a safe building or your car. Don't lie down because wet ground can carry electricity.
- If you are in water, get out. Get away from the beach.

When Thunder Roars, Go Indoors!

- If you can't get to a building or car, stay in the open, not under a tree or in a picnic shelter or shed. It's better to get wet than fried! Lightning hits the tallest object.
- Move away from anything made of metal like a framed backpack. Metal carries electricity to you.
- Get to the lowest point possible if you are on a hill or mountain.
- Get out of a boat and into a building.



Lightning Quiz

Fill in the blank with the correct words. Use these words:

fire electricity explode die shortest water tallest tree thunder corded telephone About 55 people each year from lightning and the fires it causes. 2. Don't use a _____ unless there is an emergency. and lightning occur together. 3. 4. Lightning can make a tree ______ by heating the sap in the tree. Lightning hits the objects. Lightning takes the path. When lightning forms, clouds become charged with 8. If you are outside when there is lightning, don't go under a \ When lightning strikes, it can start a that kills people and animals. If you are in get out. Stay away from the beach.

Circle T (True) or F (False) for each sentence below.

- T F 1. When there is lightning, crouch under a tree.
- T F 2. When there is lightning, stay away from anything made of metal.
- T F 3. Stay by the window and watch for streaks of lightning.
- T F 4. In a storm, you usually see the lightning before you hear the thunder.
- T F 5. When the sky lights up, but you can't see the streaks of lightning, it means the storm is over.
- T F 6. When there is lightning, go to the highest spot on a hill and get out your umbrella for protection from the storm.
- T F 7. Every day someone is struck by lightning.
- T F 8. Lightning never strikes twice in the same place.
- T F 9. If there is lightning, call all your friends to make sure they are safe.
- T F 10. Lightning storms may occur in the winter but are most common in spring and summer.