

# Fast as Lightning – Module on the Correct Behaviour in Case of Storms

Worksheets



Yaps  
Raising  
young people's  
awareness on  
preparedness and  
self protection



The European Commission provides funding for the project.

## Project Partners



Federal Office of Civil Protection and Disaster Assistance



AUSTRIAN RED CROSS



UNIVERSITATEA BABEŞ-BOLYAI

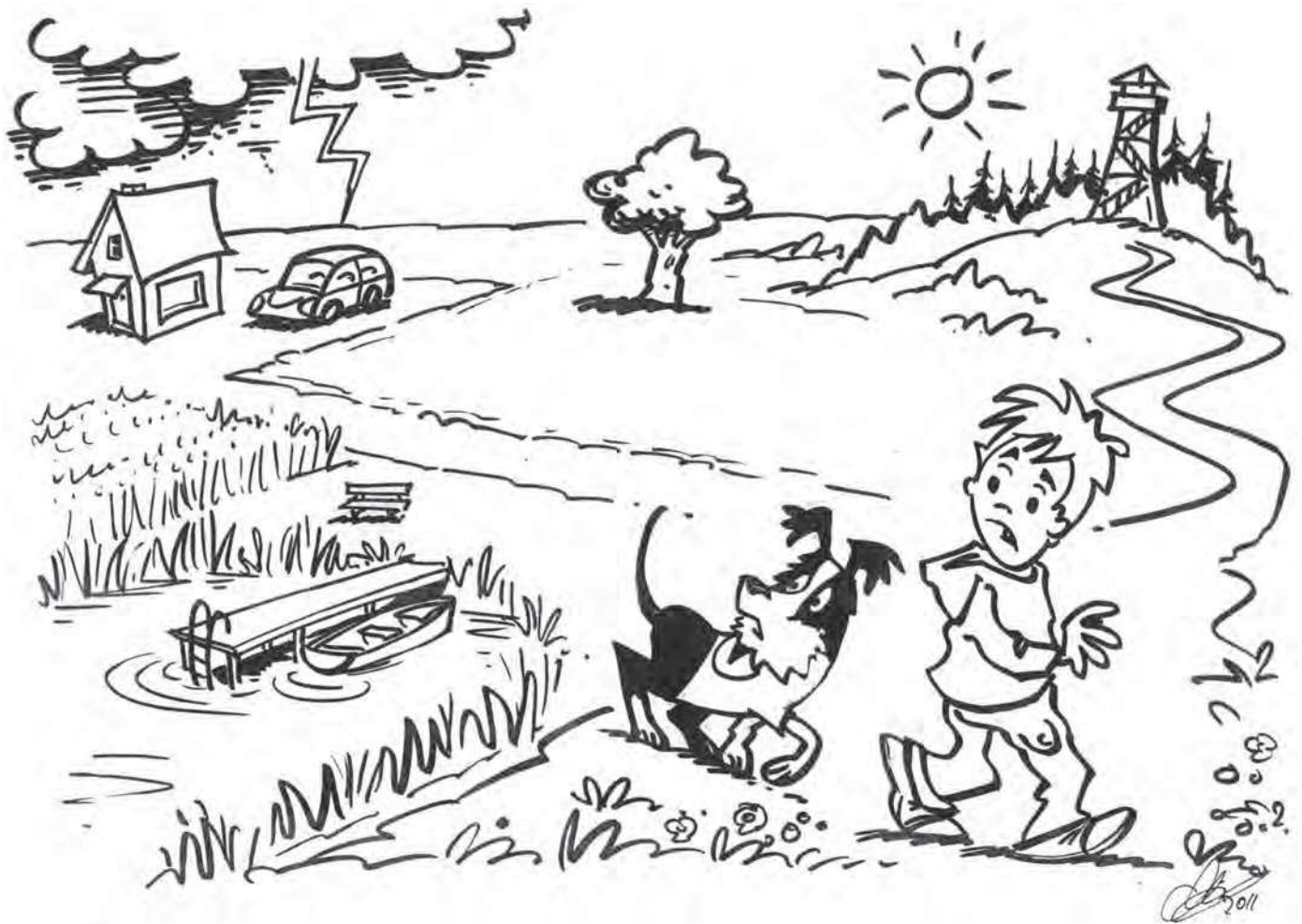
## Max and Flocke in the storm

It is summer, the sun is shining and it's very hot and stifling. In the afternoon, Max goes on a walk with his dog Flocke. The two of them leave home together, heading for the nearby forest, and pass by a field of wheat, by the lake and by the observation tower.

Suddenly, the sky is covered with black clouds. Somewhere in the distance there are booming

thunders, and the wind is getting stronger. A storm is coming. The thunders get stronger and lightning starts striking. Max and Flocke are very scared.

What should Max do? Should he rush home with Flocke, find shelter under a tree, climb up the observation tower, or run to the lake?

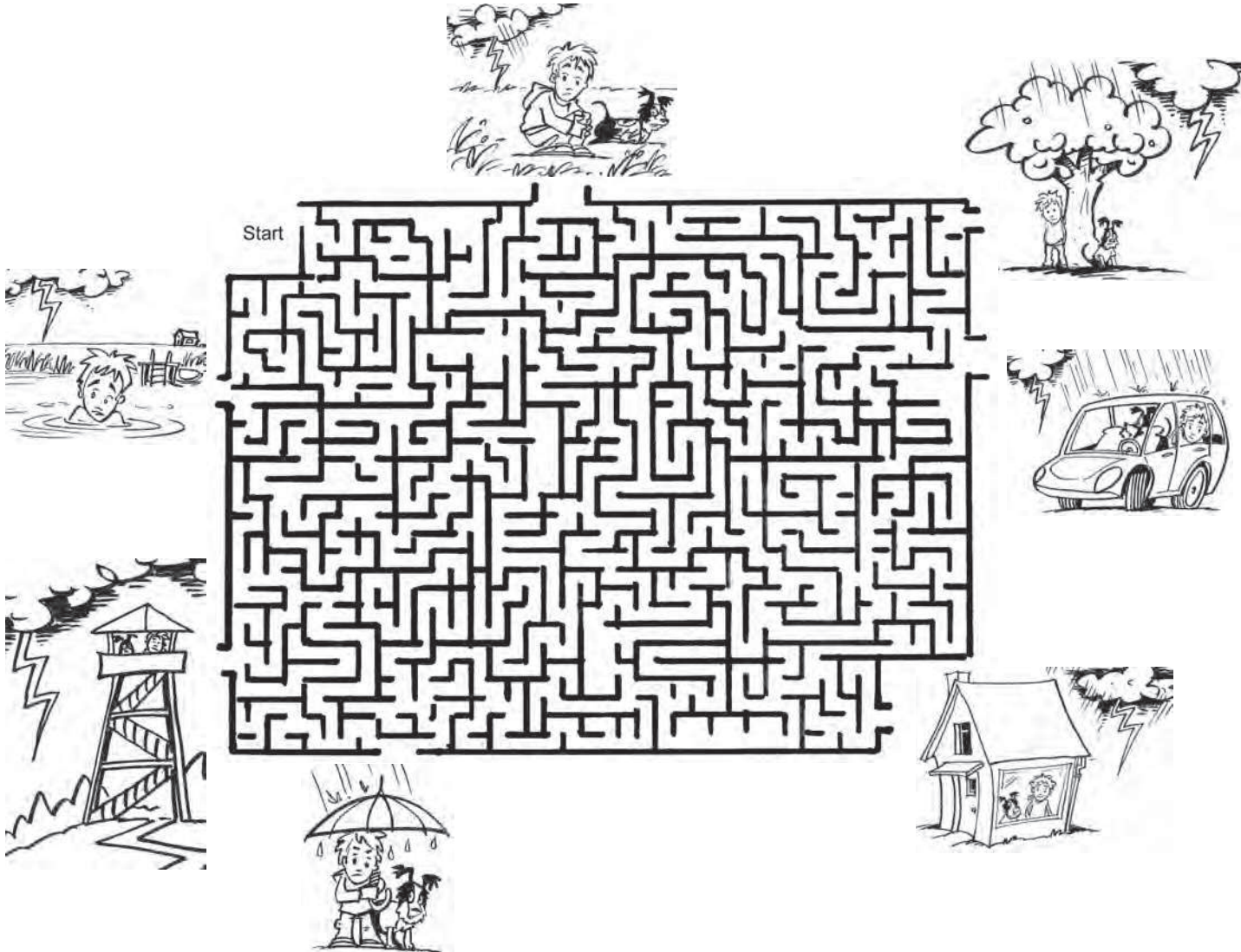




## Thunder Maze

Can you help Max and Flocke by showing them the right path to get shelter from lightning, thunder and rain?

Warning: our maze has several exits, but only three of them are correct.




Why are some of the maze exits wrong? Think about it together in the classroom. Then write down your solution.

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How would you react in the event of a storm? Discuss this in the classroom. Explain your decision.

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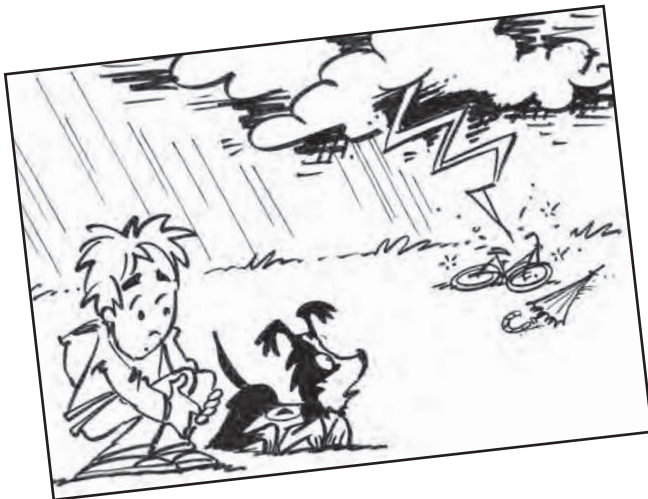
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### *This is how you protect yourself in the event of a storm - Main rules*

On his way home, the cards in Max's pocket got mixed up somehow. Can you get them in order? Sort them out. Which images match which texts? To do this, cut out the cards. Then stick the matching pairs of cards next to each other on a sheet of paper. Compare your sheet with that of your desk mate. Check if all the cards have been correctly paired.

The interior of a car is an excellent place to protect yourself from lightning. That's why, in the event of a storm, you must remain there. Even if the car is struck by lightning, you will be safe, as the electric current flows into the ground through the exterior.



When there's a storm, never go in the water in a lake or at the pool. The reason is that water is a very good conductor of electricity. So, in case of a storm, get out of the water!



Do not use an umbrella in the event of a storm. Tall, pointed objects function like an antenna and they attract lightning as if "by magic". Place the umbrella on the ground, a few meters away from you. Also, your bike should be kept at a distance, because lightning strikes mostly metal.

If you are caught in a storm and there is a solid building near you, go inside it. There you will be protected from rain and lightning.



Do not climb tall towers, get away from them as soon as the storm comes. Lightning is lazy and prefers shortcuts. That is why it strikes particularly at the highest points.

If the storm finds you in open places without trees and buildings nearby, make yourself as small as you can, so that lightning strikes 'miss' you. Stay crouched, keeping your legs tightly together so that they touch the ground in a single point. Embrace your legs with your arms and then wait for the storm to pass.



### Flocke knows ...

You certainly know what popular belief says: "Watch out for the oak but look for the beech". That is not true, a tree is a tree, and lightning does not distinguish between the trees it strikes.

## Not all storms are the same

In general, a storm is a very strong wind. But no storm resembles another. That is why experts differentiate between storms by the speed of the wind. Wind speed is measured in kilometers per hour, shortly km/h. That is to say they measure the distance in kilometers which the wind covers in an hour.

A storm has a wind speed of 75 up to 88 kilometers per hour. It covers that distance within an hour. Therefore it moves on a distance between 75 to 88 kilometers. So it's about as fast as a red kangaroo in Australia.

A strong storm has a wind speed of 89 up to 102 kilometers per hour. It's about the same speed at which gazelles flee when fleeing to save their lives.

In the case of a hurricane-like storm, the wind speed is

between 103 and 117 kilometers per hour. Cheetahs can run just as fast.

A hurricane unleashes at a wind speed between 118 and 133 kilometers per hour. This is the speed at which cars go on the highway.



### Flocke knows ...

Unlike in the case of a storm, cars are not a safe spot during strong storms or hurricanes. The car can be thrown on the wrong lane because of the high wind speed. During storms, it is best to find shelter in a solid building.



### Are you a storm expert?

Carefully look at the following images. Which image depicts a storm, a strong storm, a hurricanelike storm, or an actual hurricane?

How did you figure it out? Write your answers in the empty boxes next to the pictures.

Then compare your answers in class.




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## Flocke's safety memory

This is part of your safety memory. There are more cards in other worksheets. You can play this memory game with your friends, siblings or even alone.

You might even play it with your parents one day and see how well they do.

*Flocke says:  
"Have fun!"*



### This is how it works.

1. Print out the cards on thick paper or glue them on cardboard.
2. Cut out the cards.
3. Lay them on the table face down.
4. Find those cards where image and text match together.
5. Whoever finds the most matching cards wins the game.







In the event of a storm, I should not be in the water or near water. I get a few meters away from water.



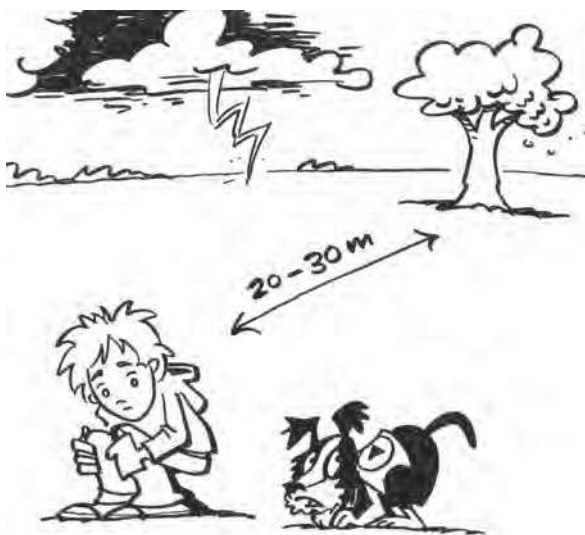
Inside a building, I am safe and sheltered from rain and lightning during the storm.



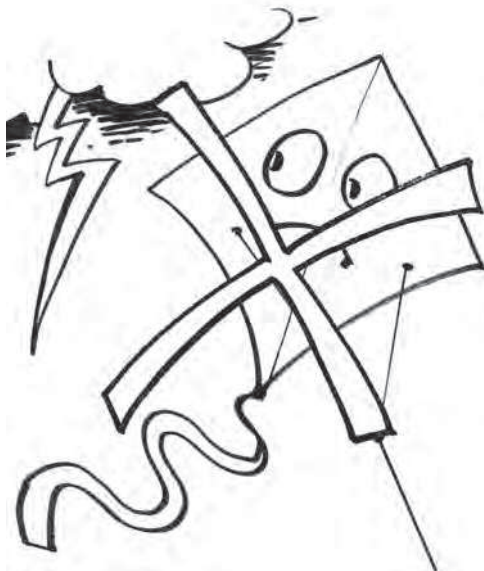
A car is an excellent place to protect myself from lightning.



Lightning strikes especially at the highest points of a place. That's why I cannot stay on a tall tower during the storm.



In the event of a storm, I must never seek shelter under a tree. I had better crouch at a distance of 20 - 30 meters away from it. I keep my legs close to each other.



I never fly a kite in the storm.