



## A FOREST

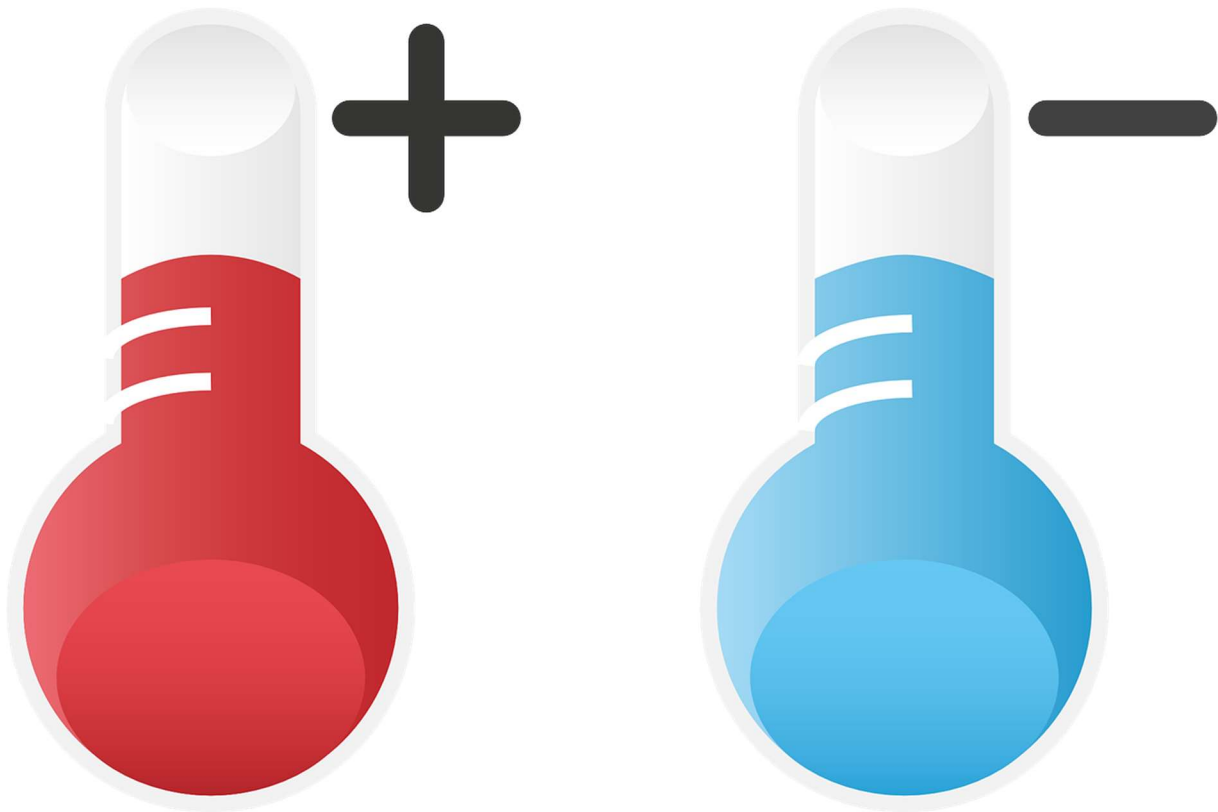
### **6<sup>th</sup> grade (3 classes)**

We believe that preserving taking care and using forest wisely is one of the parts of sustainable development as forests of any kind are one of the most important part of our environment.

Students will explore many kinds of forests in the theoretical part of their work. They read and think about the function a healthy forest has. They will also try to find out and describe what a forest is a source of, how to take care of it and they will talk about ways forests are exploited and destroyed. As the theoretical part progresses students will focus more and more on forests in Europe and finally on the ones typical for the Czech Republic. By that time, they will be able to tell the different between natural forest and the artificially planted one and the reason behind cutting trees and planting new ones (not only for Christmas trees)

There will be a practical part following the theoretical one. Students will design and prepare sets of makeshift instruments and containers that will help them gather samples from woods surrounding Kladno. A sort of scientific trip is planned not only to gather physical samples but to take pictures and make short videos or recordings, too. Students will also explore the area evaluating the type and the condition of the forest. Because our students are not able to save tropical forest yet, they will be encouraged find ways to help locally in small steps. Firstly, they will clean part of the forest near our school from garbage. Next, they will try to find everyday small steps that can help preserving a forest as a part of sustainable development.

The last part is dedicated to laboratory work. Students will use school laboratories to examine samples and compare them to the usual results in textbooks. They will create presentations, posters and/or short videos. They will present their work in front of other students, too.



## TEMPERATURE

**1<sup>st</sup> and 2<sup>nd</sup> grade (2 classes)**

Small students will explore the term global warming. In a week they will measure temperature three times a day to explore how it changes during a day in the shade and in the sun. They will also compare their result with long term measurements in the Czech Republic in our area. Is it warmer than ten – twenty or more years before? Would it be so bad? What happens to the environment? Do they miss snowy winter?

They will also measure temperature inside their homes and keep record of clothing they wear.

Students will also talk about other places on Earth and the usual temperature there. The idea is that they will invent (using their creativity) a machine that will help to transfer warmth from for example Sahara to colder countries and use it for heating instead of burning fossil fuels. Similar invention can be imagined for storing summer warmth for winter using. We are really looking forward to seeing what else children's fantasy is capable of.

Students will write, draw, glue ... They will present their work in other classes using hand made posters, too.