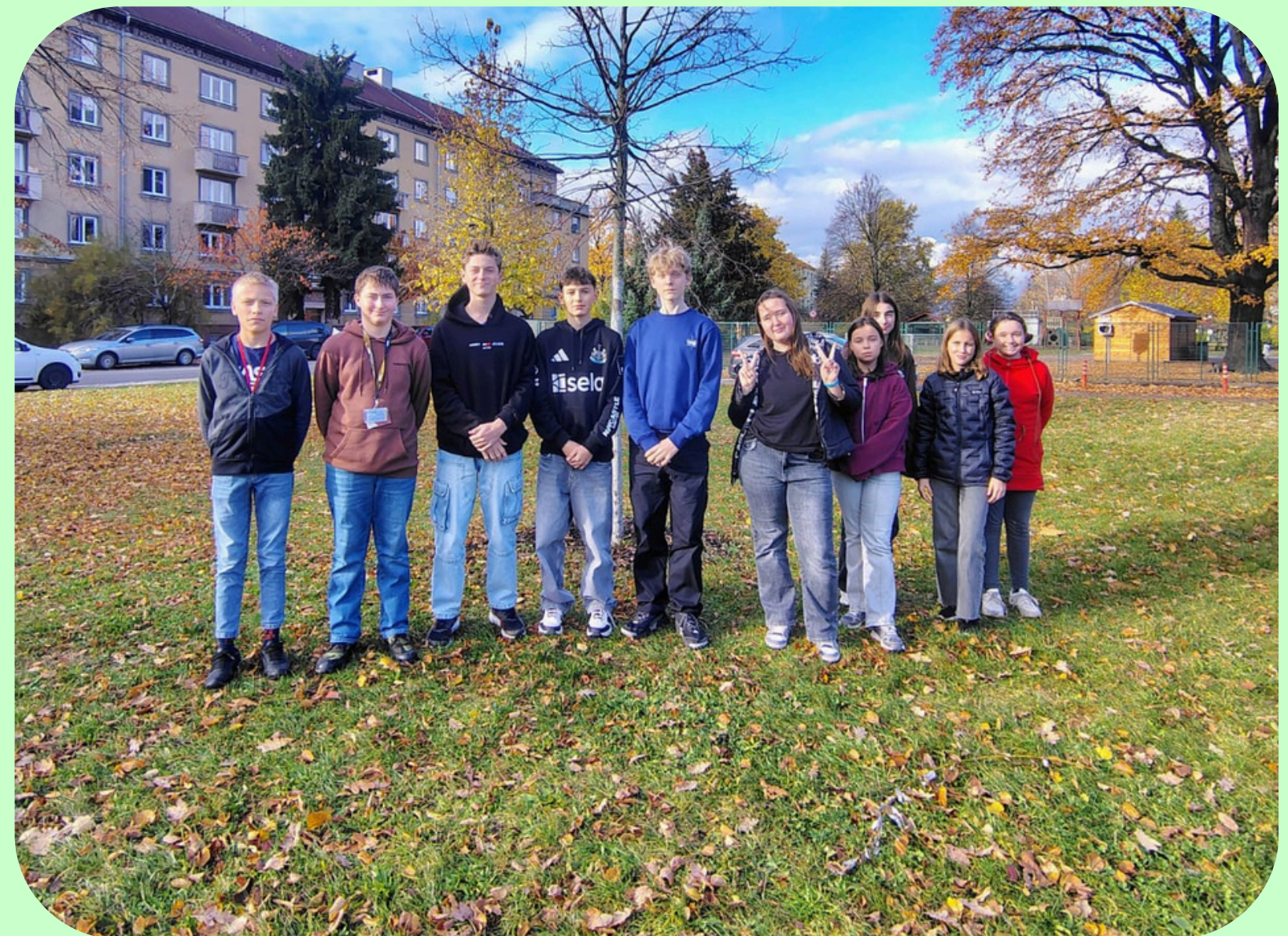


Phenologic research

Fall 2025

Introduction

Hello we are students from ZŠ Staňkova. Our school is located in Pardubice, Czech Republic. On the very left is Jáchym Draštík, next to him is Martin Lach, Jakub Panuš, Richard Mišák, Maxim Frydrych. Next to Maxim is Viktorie Nechanická, slightly behind is Veronika Janatková and behind Veronika is Sofie Janatková. Next to Veronika is Šárka Švejcarová and the happy girl in red is Zuzka Medunová. And Jakub Kaláč isn't there because he was sick.



Our program

Globe- Trees

Our class divided into two groups, one decided to observe a European beech and the second decided to observe a Small-leaved linden (our group).

In general, we had to observe the color of the leaves, and write down a code for the color into a table. There, we saw how the colors changed throughout the month and a half before the leaves were completely shed.

Observation

When? How?

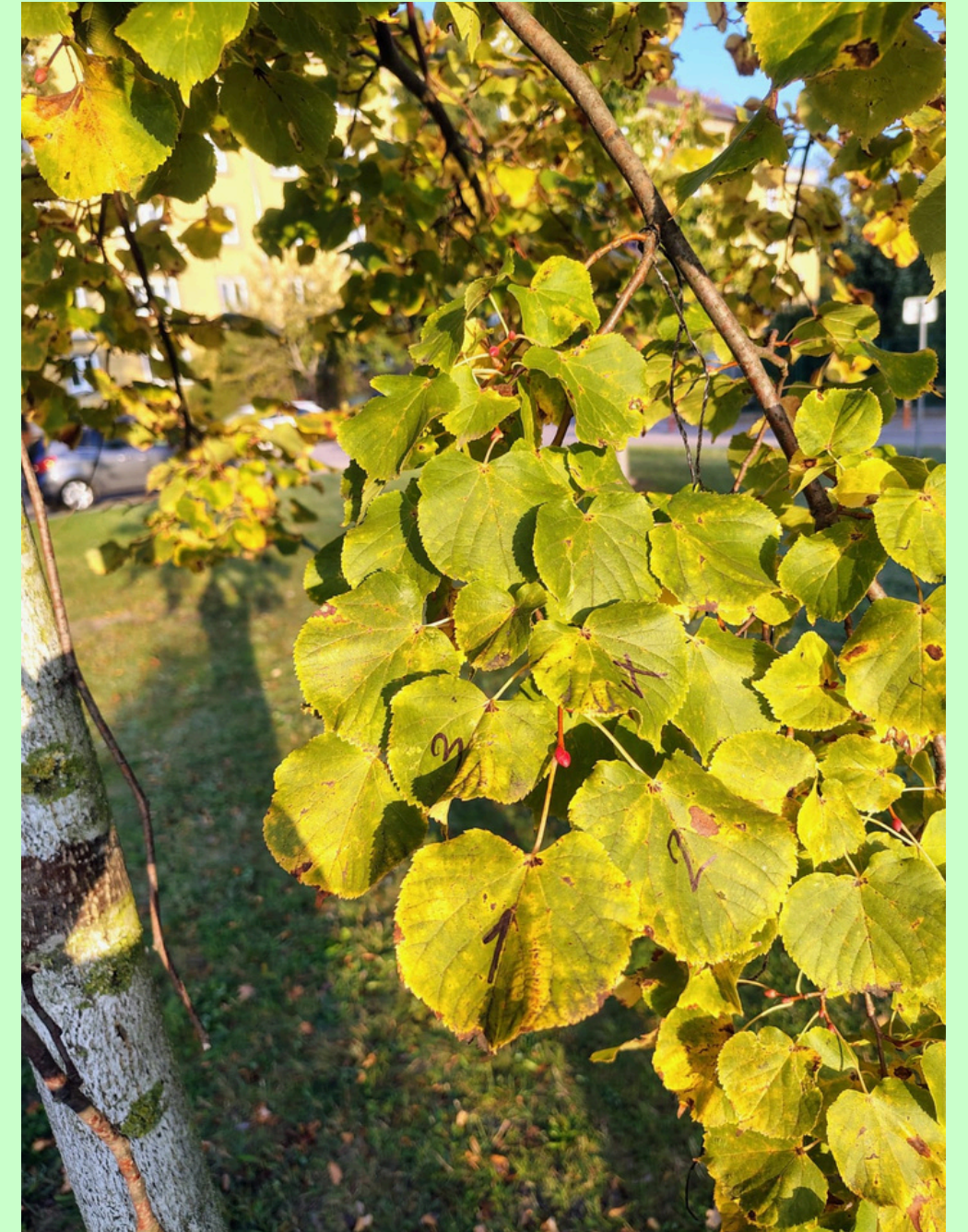
We divided into into pairs before the measuring started. Sofie was with Šárka, Veronika with Zuzka, Viktorie with Maxim and Jakub, Richard, Jakub were together. So every time it was measuring day, a different pair went measuring outside. We had to use a color sheet to determine the color of four marked leaves. The measuring lasted about a month and a half, the colors were changing slowly.

Our Tree

Basic information

Tilia cordata

- Small, heart-shaped leaves
- Fragrant summer flowers
- Medium–large
- Deciduous tree
- Very long-lived
- Important for bees
- Used for tea and carving



Leaf fall

Why does it happen?

- in winter there is less sunlight
- trees can't easily make energy without photosynthesis
- if they kept their leaves, they would waste too much energy
- leaves have small holes where water escapes
- leaves can freeze and get damaged in winter
- by dropping them, the tree avoids freezing damage



Leaf color changes

The reason



- Trees stop making chlorophyll
- when chlorophyll disappears other pigments show
- leaves turn yellow, orange or red
- These colors were always in the leaves but were hidden by the green chlorophyll
- When green fades the other colors become visible

**Thank you for your
attention**