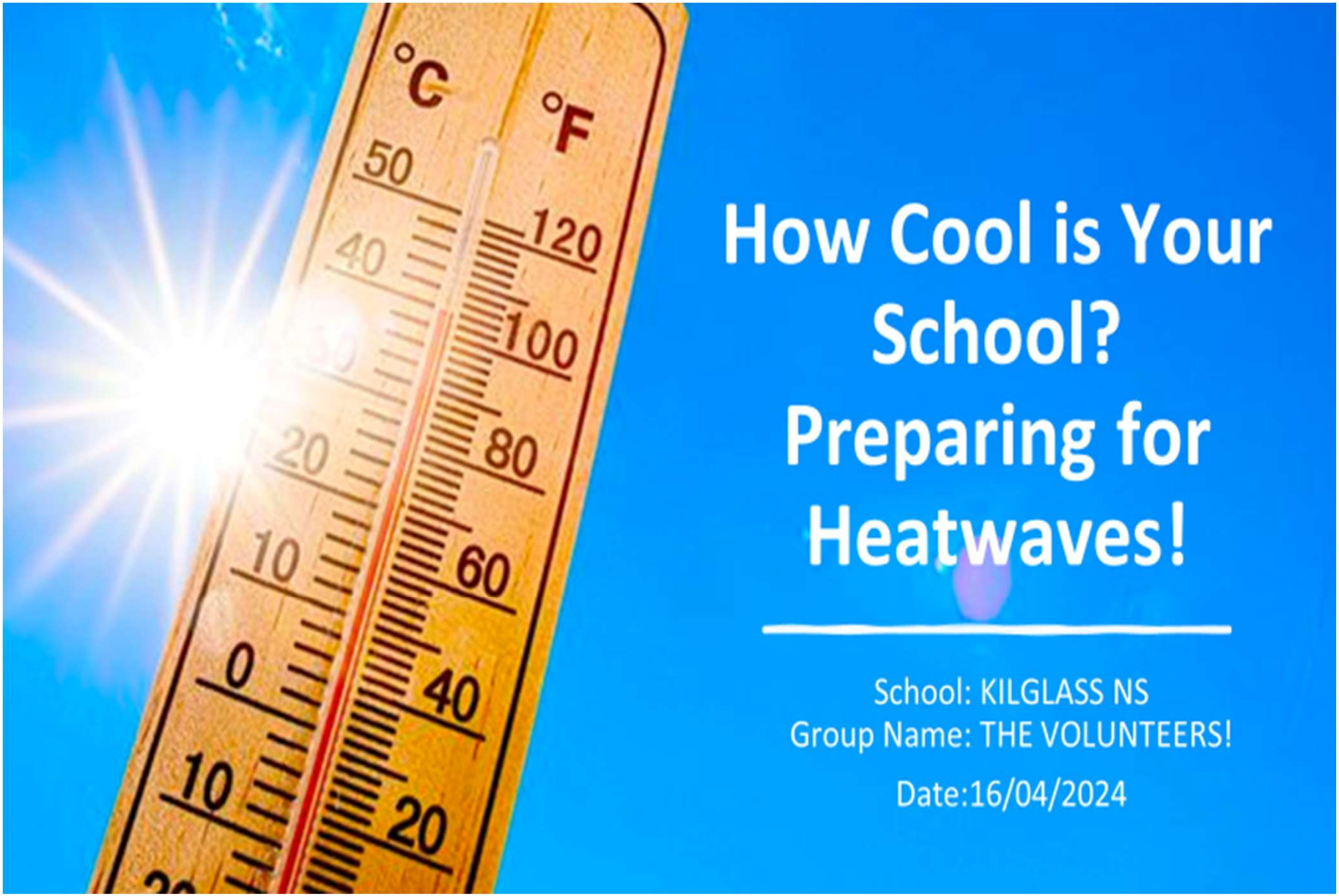

°C
°F
50
40
30
20
10
0
10
120
100
80
60
40
20
How Cool is Your School? Preparing for Heatwaves!
School: KILGLASS NS
Group Name: THE VOLUNTEERS!
Date:16/04/2024

Why?

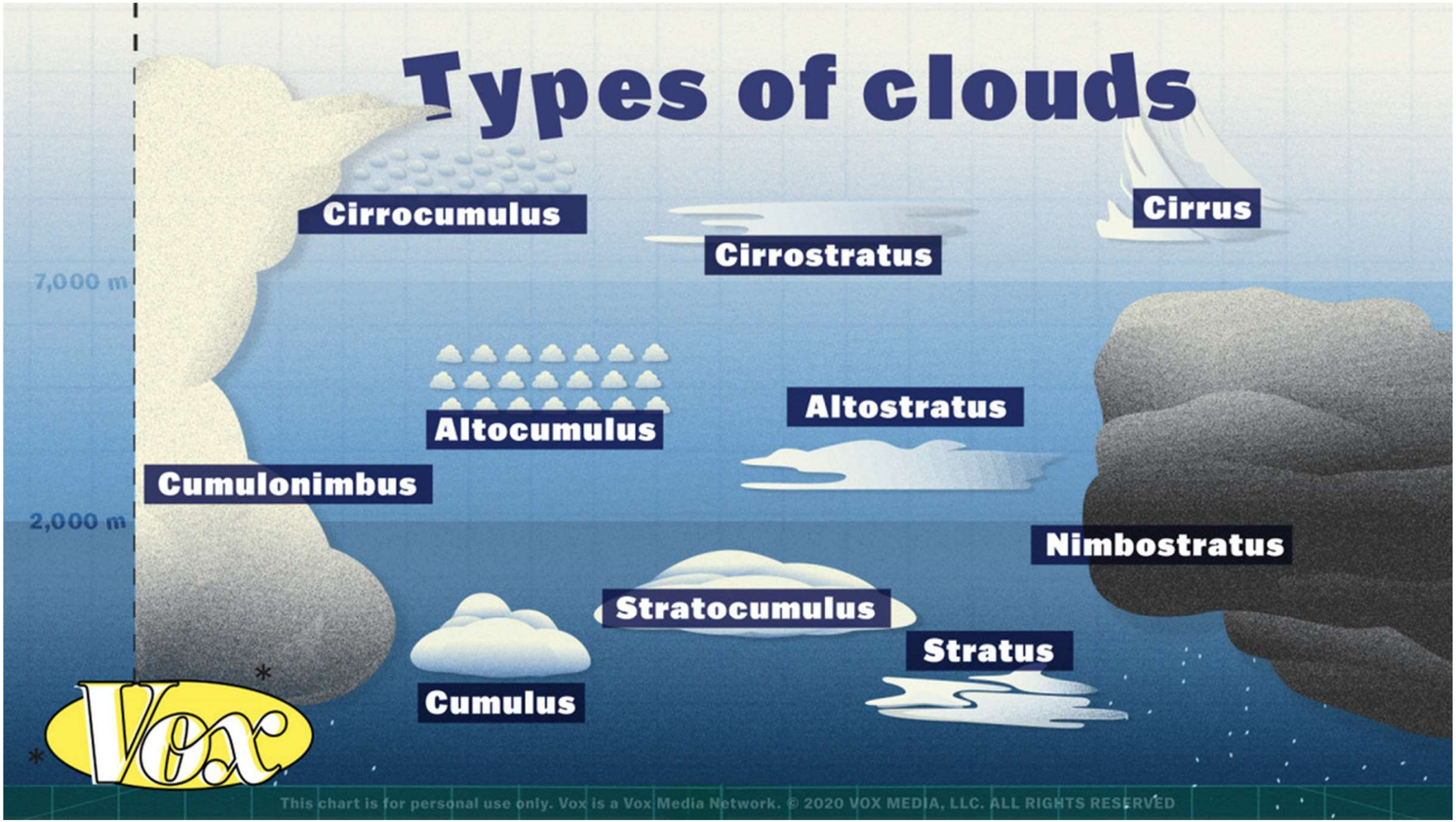
We wanted to examine our school and to see how well we were prepared in terms of keeping ‘Cool’ in light of the treats posed by Global warming. This was part of Globe Ireland’s ‘Cool Schools’ Project 2024

Who?

- A group of very-interested and motivated pupils gave up their lunch-times to plan, implement and showcase their project.
- The group was made up of 3rd and 4th class pupils.

Where?

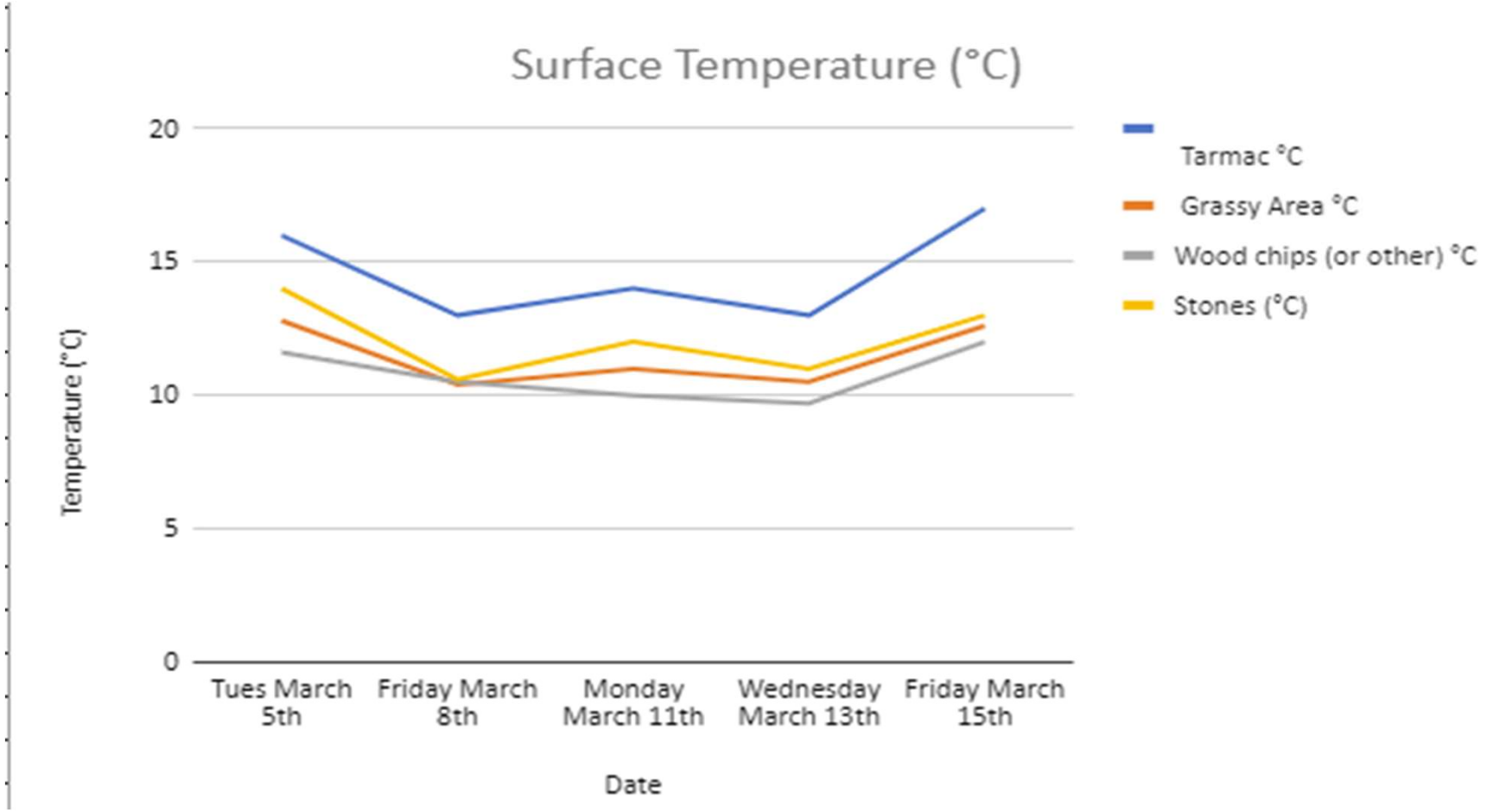
We first learned about clouds and their effects on temperature. We then did a school Land cover walk, completed a school surface audit and chose 4 school surface areas for our project: tarmac, grass, wood chips and pebbles.


Types of clouds
Cirrocumulus
Cirrostratus
Cirrus
7,000 m
Altocumulus
Altostratus
Cumulonimbus
2,000 m
Nimbostratus
Stratocumulus
Stratus
Cumulus
Vox
This chart is for personal use only. Vox is a Vox Media Network. © 2020 VOX MEDIA, LLC. ALL RIGHTS RESERVED

HOW

The volunteer group used thermometer guns one day per week to measure temperatures in the five chosen surface areas. On each of the five days they took 9 random readings from each area. These readings were then logged and entered on a spreadsheet.

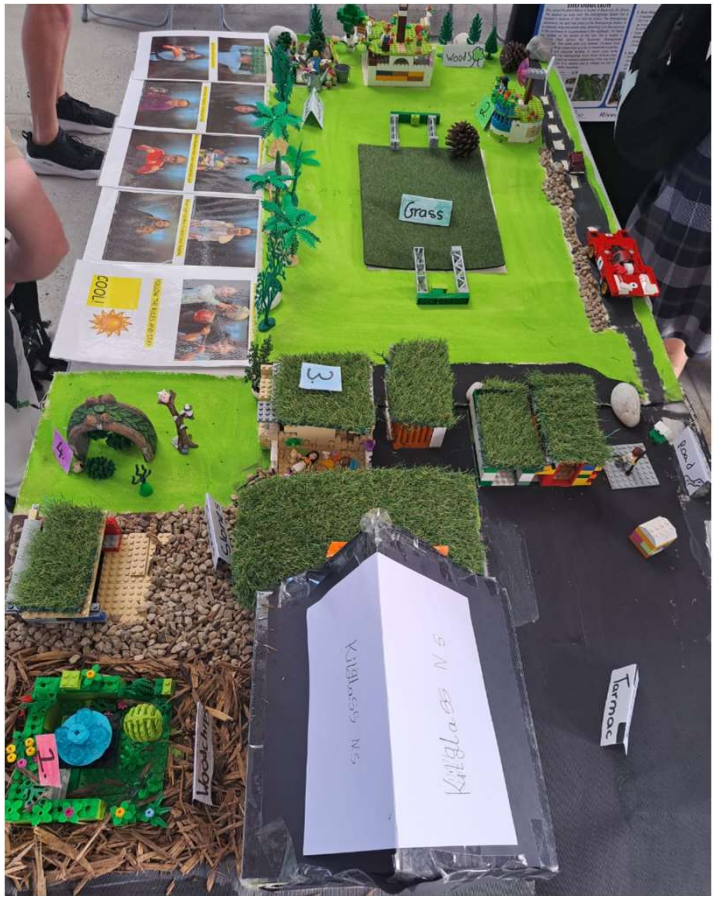
The pupils collected and shared their results with other participating schools in the programme. . The Tarmac area of the school was the warmest area surveyed. We then, as Citizen Scientists, shared our observations and findings with Globe Ireland and worldwide


Surface Temperature (°C)
Temperature (°C)
20
15
10
5
0
Tues March 5th
Friday March 8th
Monday March 11th
Wednesday March 13th
Friday March 15th
Date
Tarmac °C
Grassy Area °C
Wood chips (or other) °C
Stones (°C)

THE RESULTS

Next Steps

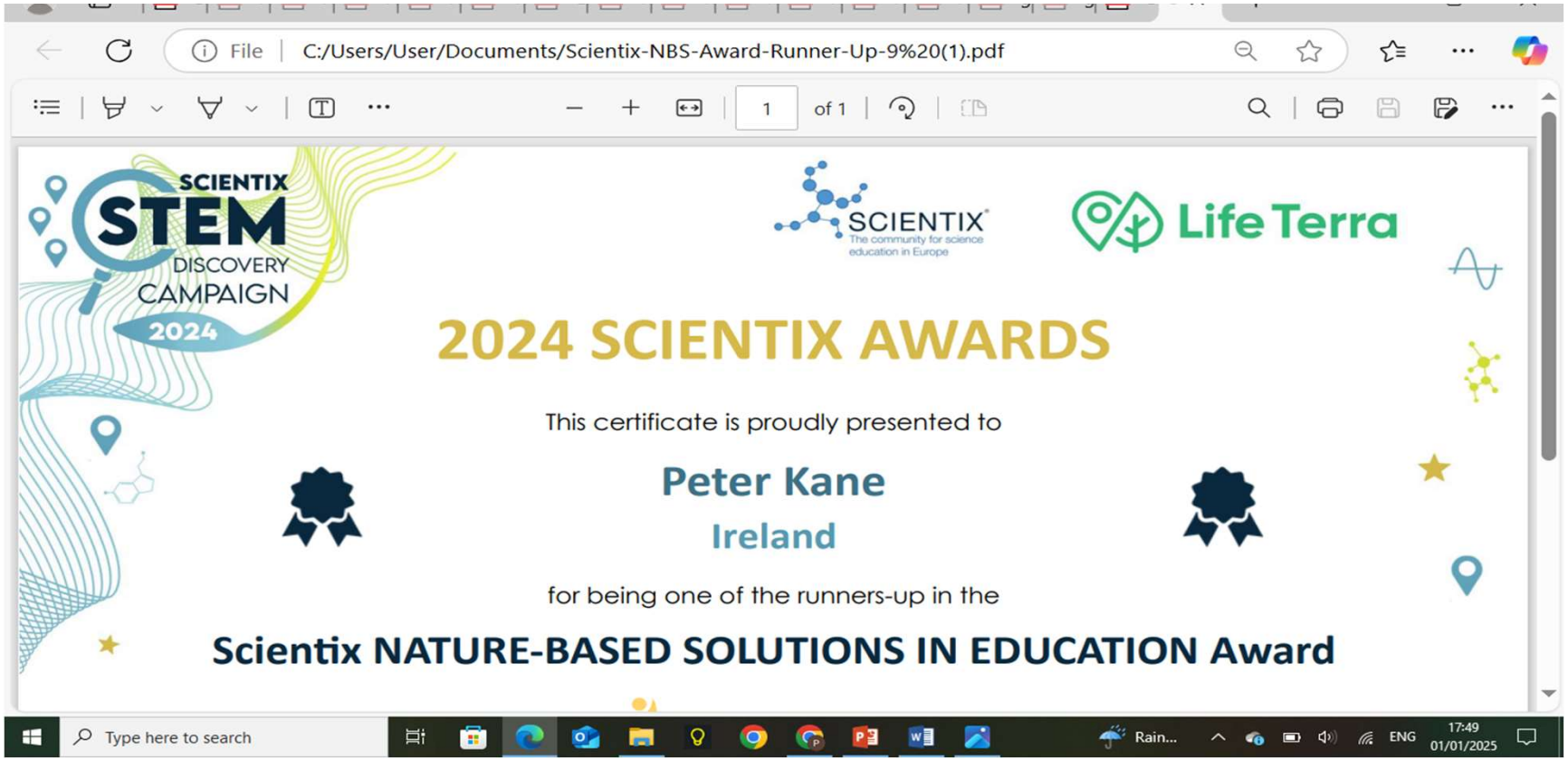
Plans to make our school a Cool school using Nature Based Solutions(NBS) where possible. We designed a plan for the school identifying key steps and constructed a Lego model to show change.



Key ideas for the future

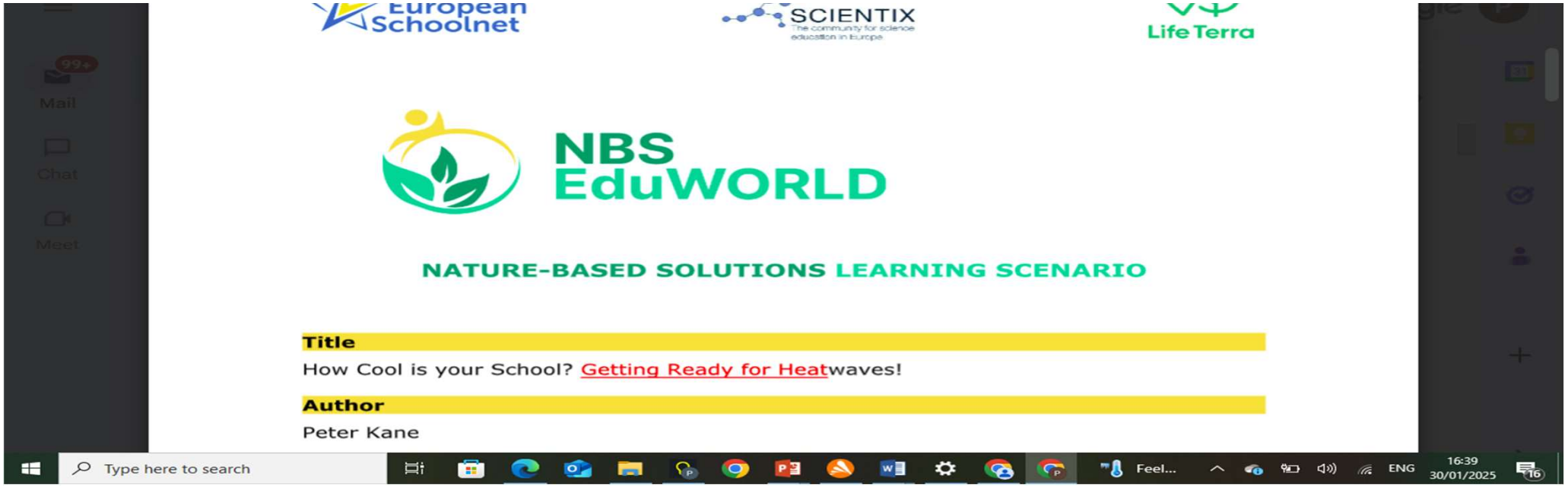
We can help make our school cooler and adapt to rising future temperatures by using Nature Based, environmentally friendly solutions such as:

- Mini-gardens on top of our shelters
- More shelters using recycled materials such as pallets
- An additional willow dome
- External hydration station
- An awareness ‘Keep Cool’ campaign in the school and the local community using findings



Scientix NBS Award

We were a runner up in the 2024 “Nature-based solutions in Education’ Scientix STEM Discovery Campaign.



Mr. Kane is a Scientix Ambassador and has submitted a **Learning Scenario** for the resource repositories of NBS EduWORLD, Scientix, and other NBS portals.

GLOBE IRELAND AWARD WINNERS

The GLOBE Program Ireland

MOST CREATIVE PROJECT

Kilglass National School, Galway

CONGRATULATIONS!!

Thank you for such a ‘Cool’ Project. We enjoyed being Citizen Scientists. We look forward to our next Globe Project. GO RAIBH MAITH AGAT! SLÁN!

KILGLASS NATIONAL SCHOOL

Ahascragh

County Galway

Ireland

A COOL SCHOOL!!