

Royal Society Grant Project

Can technology reduce litter in schools?



3,000 pounds grant from Royal Society for 'Tomorrow's young climate scientists' programme

Phase 1

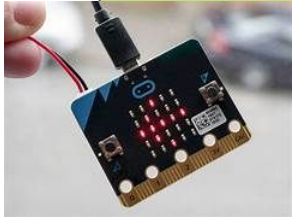
2024

5FE (now 6FE)

Objectives:

1. code micro:bits to quantify littering
2. understand why students litter

Completed ✓



Phase 2

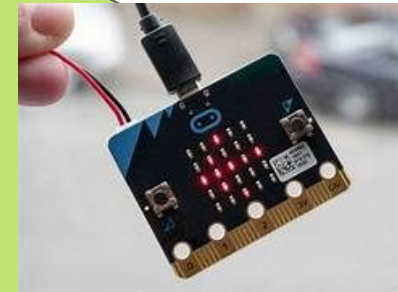
2025

Led by 5FE, including whole primary

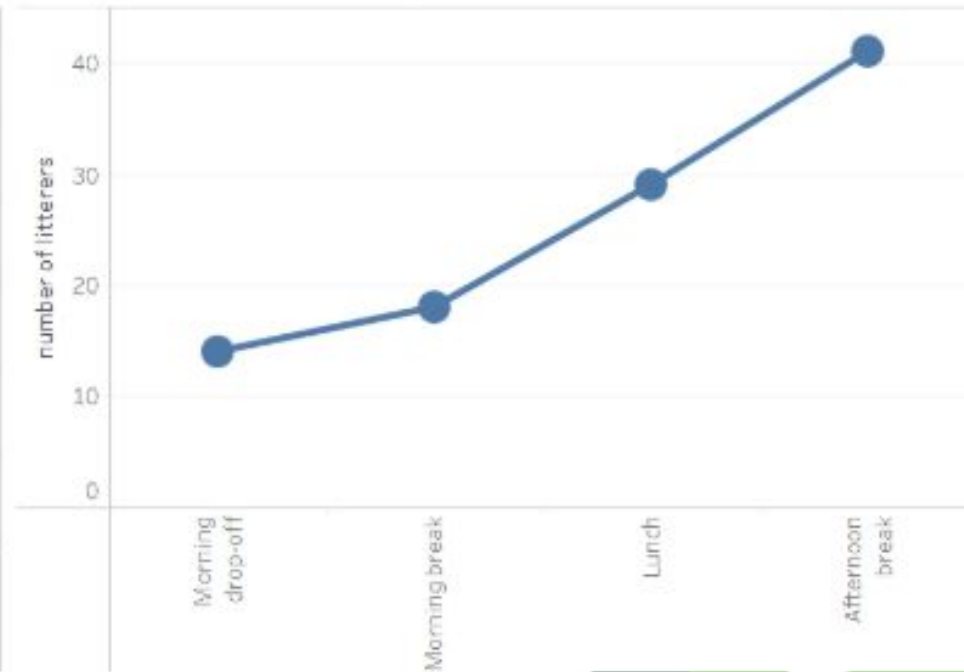
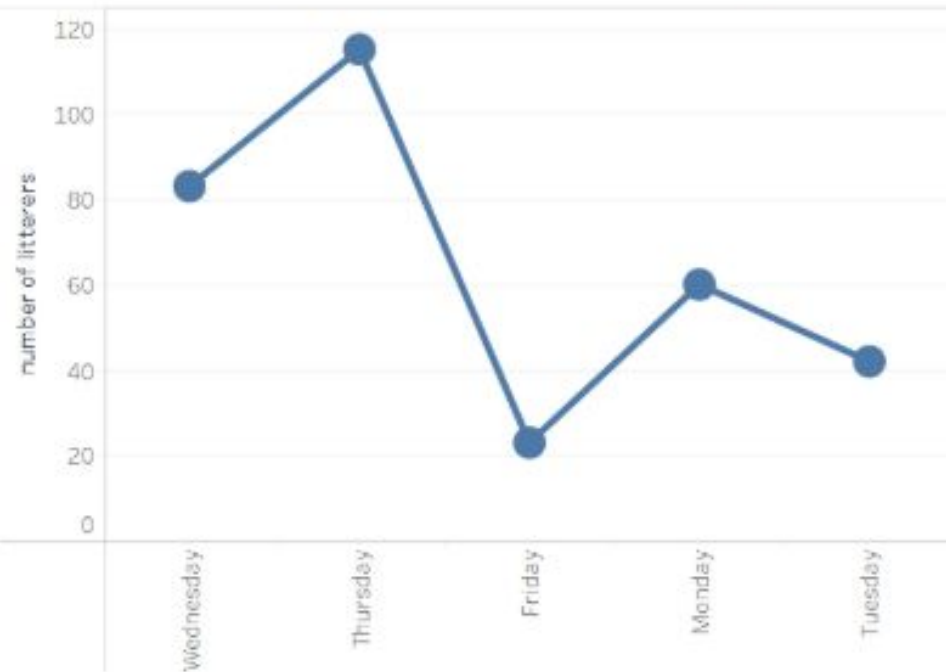
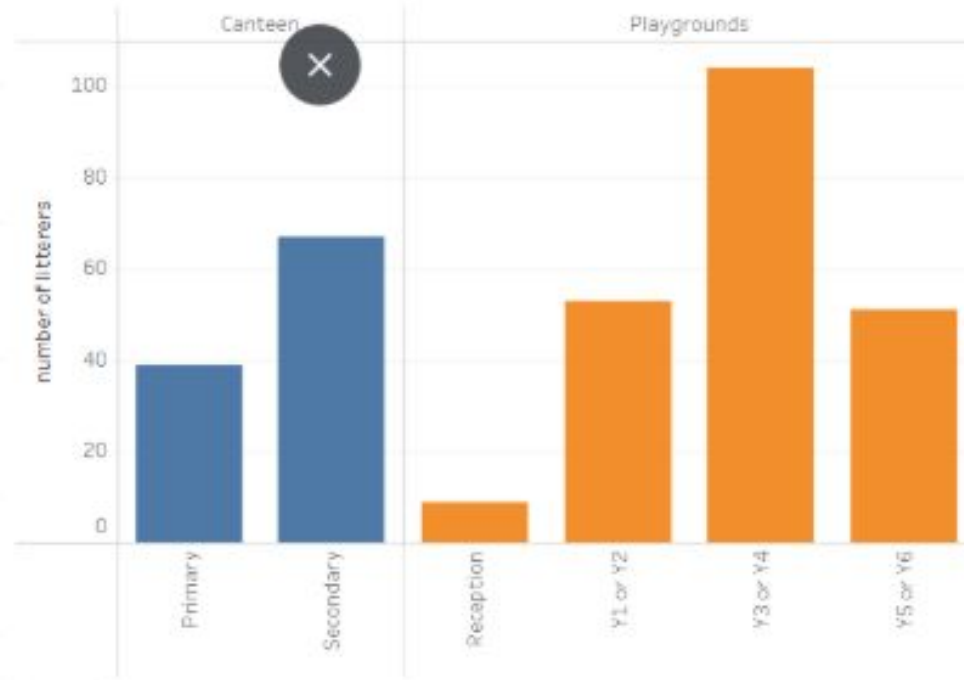
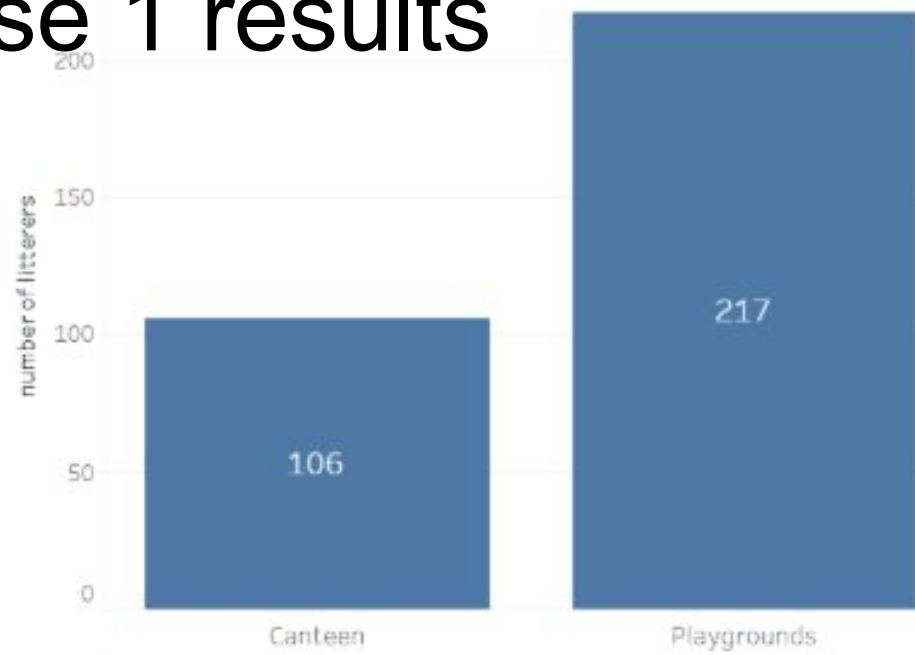
Objectives:

1. code micro:bits to quantify littering
2. Create anti-littering posters using Canva
3. Design 3D rewards with 3D printer
4. Run anti-littering campaign
5. Quantify littering with micro:bits to assess impact of campaign

Completed ✓



Phase 1 results



Europa was invited at Parliament to share what we did during Phase 1 on March 17th



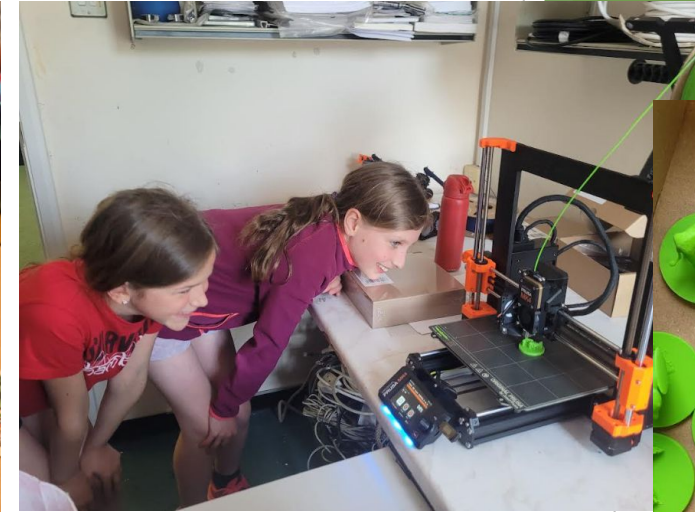
Phase 2 - What 5FE did



1.Designing anti-littering posters



2.Designing rewards with Tinkercad for 3D printing



3.Using the 3D printer



4.Coding micro:bits



5.Running the campaign



5FE ended the project with a school assembly sharing what they did and what they learned during the project.

They used all the plastic lids used in the project to create a special mural which will be displayed in school as a memory and a reminder not to litter.





Digital Eco-Detectives

Can technology impact on littering in schools?

5FE and 6FE
April 2024 – June 2025

THE
ROYAL
SOCIETY