

EESW STEM Cymru Case Study:

Sustainable Farming Project | St Teilos Church in Wales High School, Cardiff

22nd May 2025 until 26th June 2025

28 Year 7 Pupils – 40% FSM, 48% BAME, 14% SEN

The project started with a workshop delivered by EESW in which pupils worked in teams to assemble greenhouses and to wire them and code them to look after their seeds automatically. The EESW team showed them some basic coding skills but otherwise they worked independently, following various written and video guides. Each pupil had a different role to complete within their team and they had to help each other along the way.



Curriculum Links

- *Relevant curriculum areas supported:* Digital literacy, KS3 science – life cycle of plants and sustainability
- *Key skills developed:* Problem solving, teamwork, coding, using basic tools and following technical drawings.
- *Reason for activity choice:* Curriculum enrichment. The class had had a very disrupted few months due to staff absence and this was a chance for them to get involved in something a bit different and exciting.

Impact on Learners and Teachers.

- Educated pupils on the need to grow food at a faster rate and to think about location food is grown.
- Provided hands on experience of coding, building.
- Allowed pupils to work on a challenging project as a team and to ask questions directly to the expert.
- Pupils felt involved and inspired and their attitude towards science and the potential it has, has improved dramatically!
- All pupils were awarded a CREST Discovery award.



Overall Project rating

Teacher (5 out of 5): ★ ★ ★ ★ ★

Pupils (4.71 out of 5): ★ ★ ★ ★ ★

Feedback on EESW Delivery

Exceptional level of support. I have never coded and Liz (EESW Activity Deliverer) was brilliant with the pupils and myself. I was reassured at every step of the process and even after the workshop had ended, any issues that could arise were catered for. A very thorough workshop delivered exceptionally well.

Lead Teacher: Rebeca Rees, Head of Chemistry

