

EESW STEM Cymru – Bridgend SPF Case Study

1. Bryntirion Comprehensive, Bridgend

- Local authority: BCBC
- Teacher name and role: Andrew Jones – Head of Science
- Date of workshop: 19.11.25



2. Workshop/Activity Overview

- Title of workshop/activity: Robot Hoppers
- Year group(s) involved: Year 7
- Number of learners participating: 108
- Brief description of the session: Pupils tried to design and create a robot that reflects how animals move in nature (no wheels allowed!). Pupils worked collaboratively to test and improve their design through the iterative testing process to find the one who could complete a set distance the fastest.

3. Curriculum Links

- Relevant curriculum areas supported: Science, Technology and IT.
- Key skills developed: Teamwork, communication, problem solving, patience & resilience
- Reason for activity choice: Fun activity that allows access to equipment that intrigues and inspires pupils.

4. Impact on Learners

- What did learners enjoy most? Competitive element, using robots not seen before. Being creative.
- What new skills or knowledge did learners gain? Opened up a field of work and study that they would not have known existed.
- Evidence of engagement: Look at the smiles on faces in the pictures. Most said it was “awesome”. Four girls that took part in the morning workshops came along to their first robot club meeting that lunchtime.



5. Impact on School/Teaching

- How did the activity support teaching or curriculum delivery? Shows links between S,T & E and how they can be combined in an industry. Particular focus on forces for us in science.
- Any changes or follow-up activities planned: We are trying to run a robot club that allows more exposure to coding and robots.

6. Feedback on EESW Delivery

- Quality of facilitation: Excellent
- Usefulness of resources: Excellent
- Suggestions for improvement: Nothing – just more opportunities for schools to implement it.