

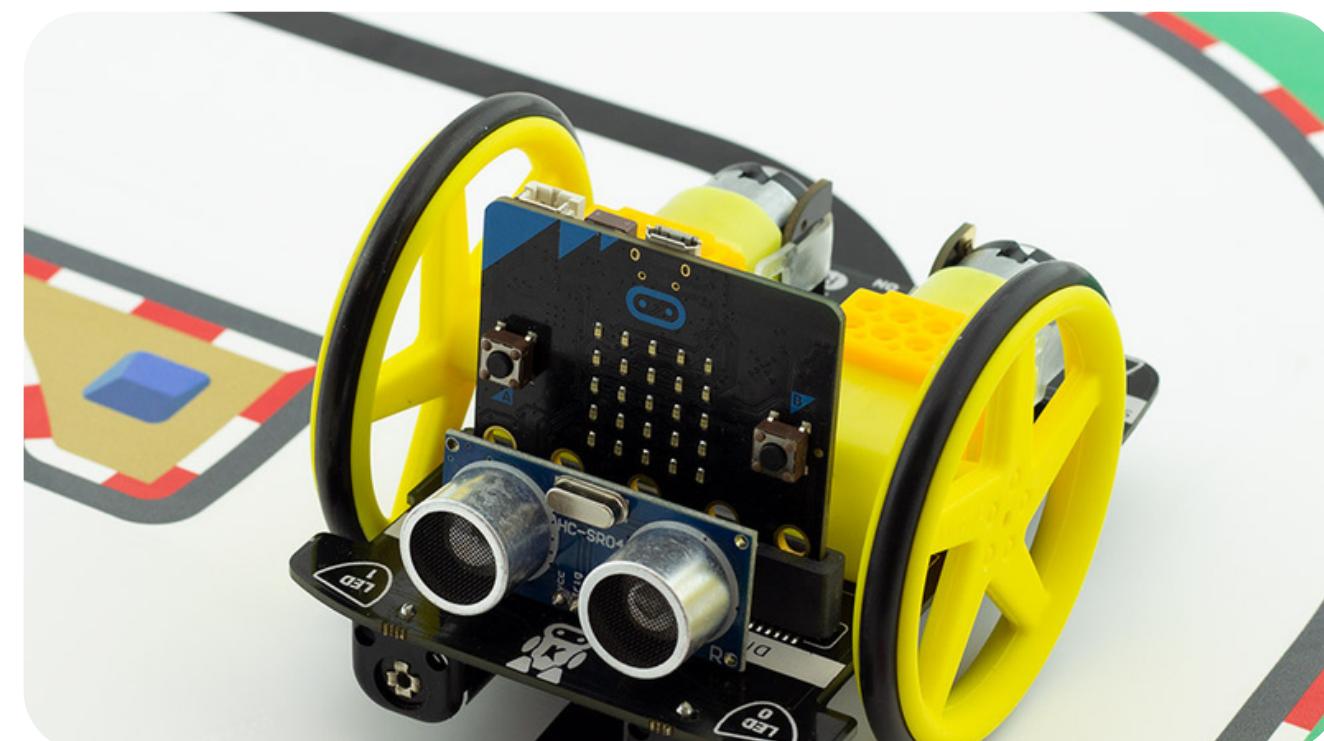


Funded by  
UK Government



Cyngor Sir  
**CEREDIGION**  
County Council

## Introduction 2 Engineering & Manufacturing Workshops for Secondary Schools in Ceredigion

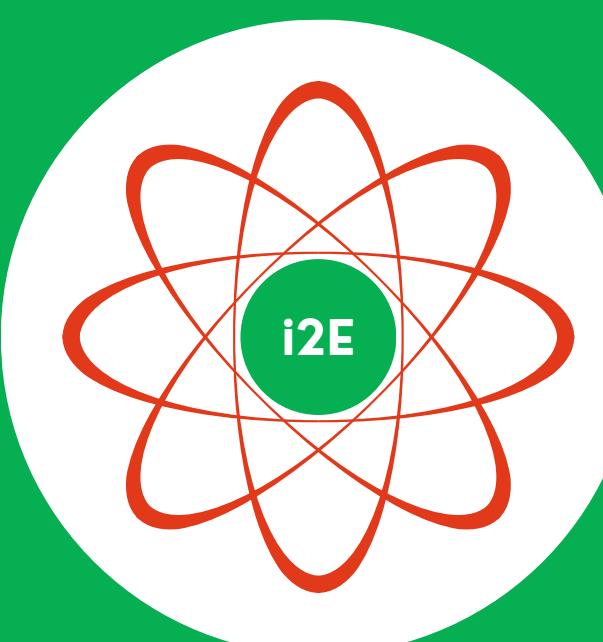


### Speed Challenge

EESW Speed Challenge is a fantastic two-hour activity where pupils get to experience the exciting world of CO<sub>2</sub> powered model racing cars. Pupils work in teams to build and race their cars on our purpose-built floor track to see which team has produced the fastest CO<sub>2</sub> powered car.

### Wind Turbine Workshop

Working in small teams, pupils use our redesigned kits to build their own wind turbine and measure the energy generated. Pupils learn how they work, how they are engineered and constructed, and are tasked to create and record the most efficient wind turbine.



### BBC micro:bit Workshop

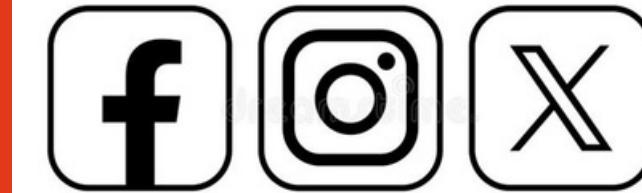
In this BBC micro:bit workshop, pupils are guided through a series of challenges where they will create code to move a microbit robot through a series of tasks. Pupils program a transmitter and receiver to introduce remote control, adjusting their code throughout to improve their robot's performance.

### Spheros Workshop

Our latest workshop introduces pupils to the exciting world of Spheros. Working in groups, pupils apply new skills to create and refine programmes and coding, plus navigate through progressive challenges which include data collection and problem-solving skills. Let your pupils be amazed by the motion and control which makes up coding Spheros.



**Website:**  
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or call 01656 669381  
to book



Follow us on our socials

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Fully funded workshops for secondary  
schools in Ceredigion

**THE PROJECT IS FUNDED BY  
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DRIVEN BY LEVELLING UP**

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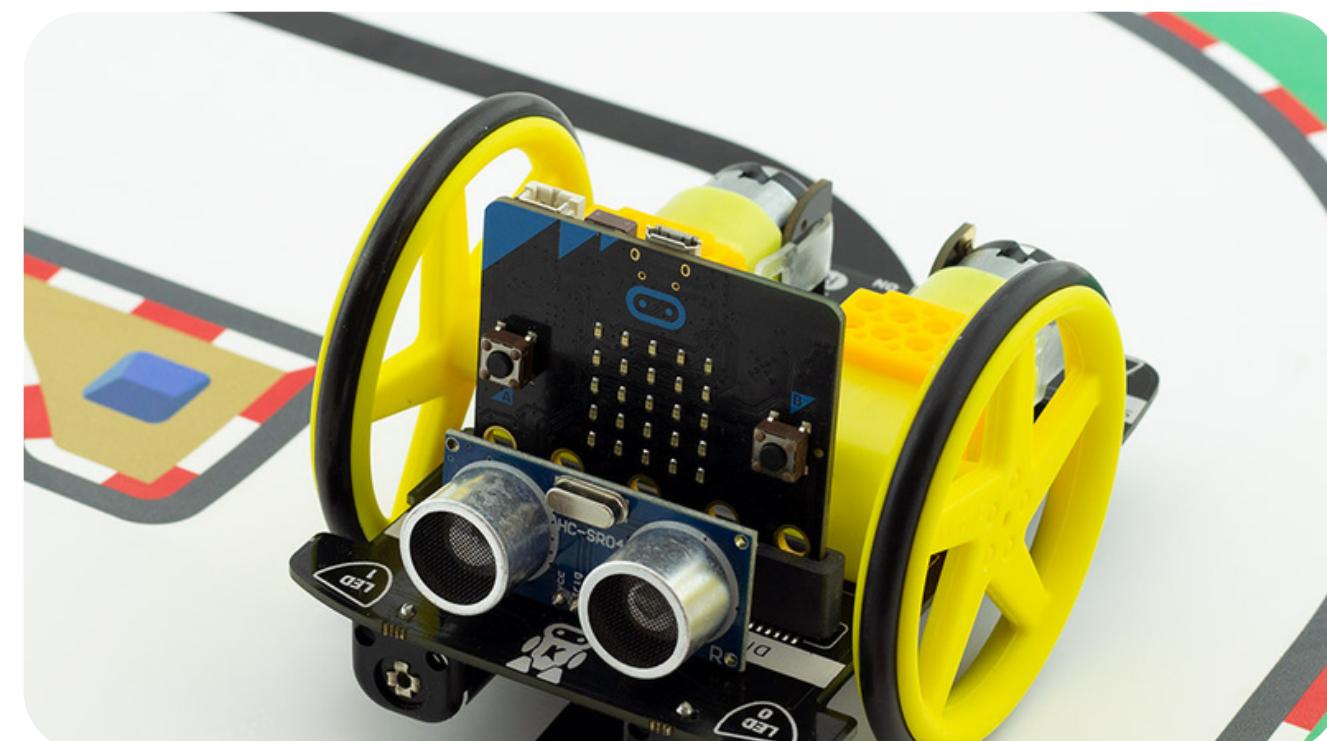


Wedi ei ariannu gan  
Llywodraeth y DU



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County Council

## Cyflwyniad i Beirianneg a Gweithgynhyrchu Gweithdai ar gyfer Ysgolion Uwchradd Ceredigion

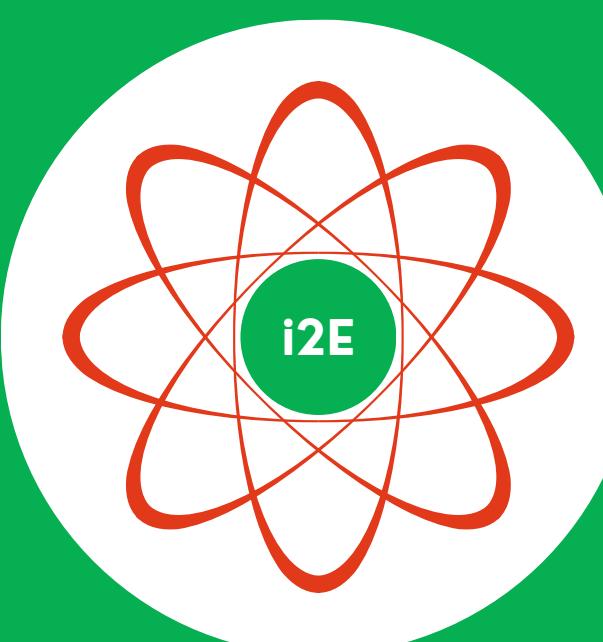


### Sialens Cyflymder

Mae Sialens Cyflymder EESW yn weithgaredd dwy awr wych lle mae disgyblion yn cael profi byd cyffrous ceir rasio model wedi'u pweru gan CO<sub>2</sub>. Mae disgyblion yn gweithio mewn timau i adeiladu a rasio eu ceir ar ein trac llawr pwrrpasol i weld pa dîm sydd wedi cynhyrchu'r car sy'n cael ei bweru gan CO<sub>2</sub> cyflymaf.

### Gweithdy Tyrbinau Gwynt

Gan weithio mewn timau bach, mae disgyblion yn defnyddio ein citiau wedi'u hailgynllunio i adeiladu eu tyrbin gwynt eu hunain a mesur yr ynni a gynhyrchir. Mae disgyblion yn dysgu sut maen nhw'n gweithio, sut maen nhw'n cael eu peiriannu a'u hadeiladu, ac maen nhw'n cael y dasg o greu a chofnodi'r tyrbin gwynt mwyaf effeithlon.

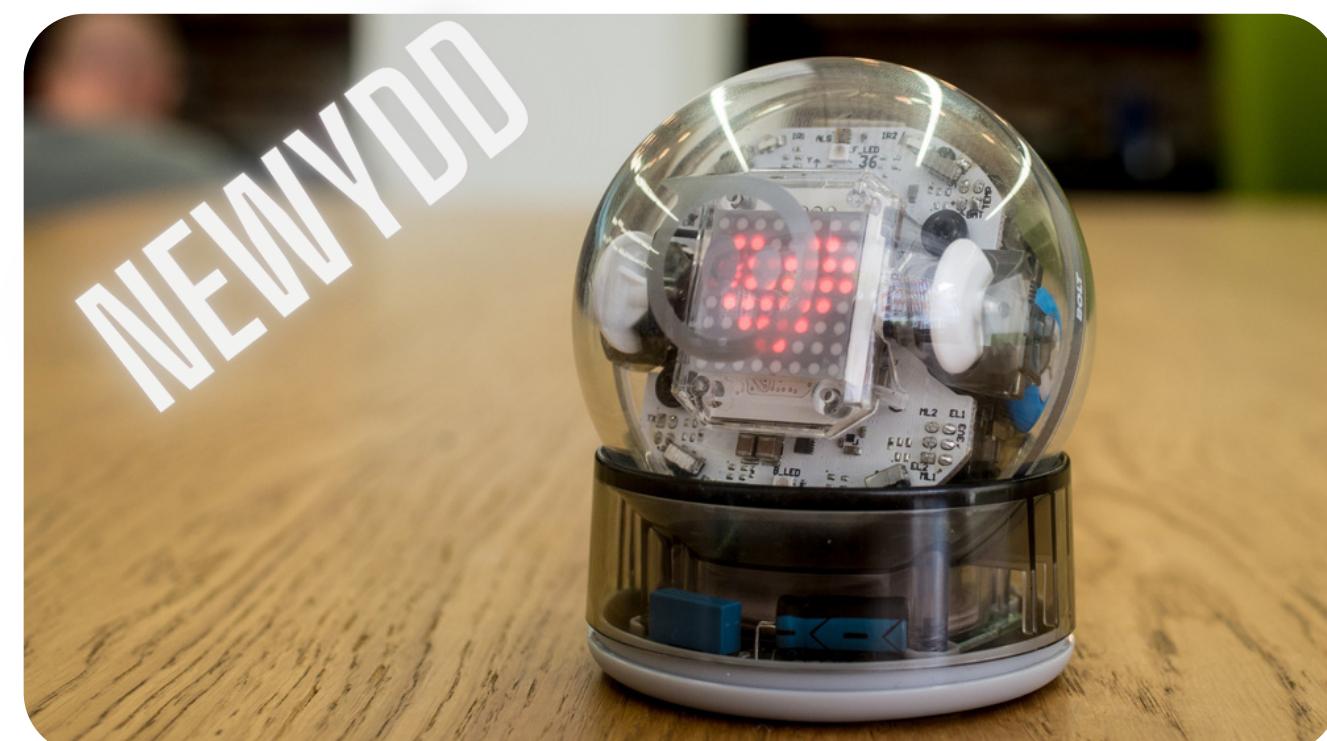


### Gweithdy BBC micro:bit

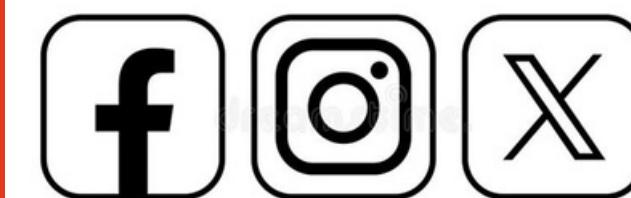
Yn y gweithdy micro:bit BBC, caiff disgyblion eu harwain trwy gyfres o heriau lle byddant yn creu cod i symud robot Microbit trwy gyfres o dasgau. Mae disgyblion yn rhaglennu trosglwyddyd a derbynnydd i gyflwyno teclyn rheoli o bell, gan addasu eu cod drwyddo draw i wella perfformiad eu robot.

### Gweithdy Spheros

Mae ein gweithdy diweddaraf yn cyflwyno disgyblion i fyd cyffrous Spheros. Gan weithio mewn grwpiau, mae disgyblion yn cymhwysyo medrau newydd i greu a mireinio rhaglenni a chodio, ac yn llywio trwy heriau cynyddol sy'n cynnwys sgiliau casglu data a datrys problemau. Gadewch i'ch disgyblion gael eu syfrdanu gan y symudiad a'r rheolaeth sy'n rhan o'r codio Spheros.



**Gwefan:**  
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i archebu



Dilynwch ni ar gyfryngau  
cymdeithasol  
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Gweithdai wedi'u hariannu'n llawn ar gyfer  
ysgolion uwchradd Ceredigion

**ARIENNIR Y PROSIECT GAN  
LYWODRAETH Y DU,  
WEDI EI YRRU GAN FFYNIANT BRO**

W E D I ' I   Y R R U   G A N

**FFYNIANT  
— B R O —**