



Wedi ei ariannu gan
Llywodraeth y DU

Funded by
UK Government



Introduction 2 Engineering & Manufacturing Workshops for Secondary Schools in Bridgend

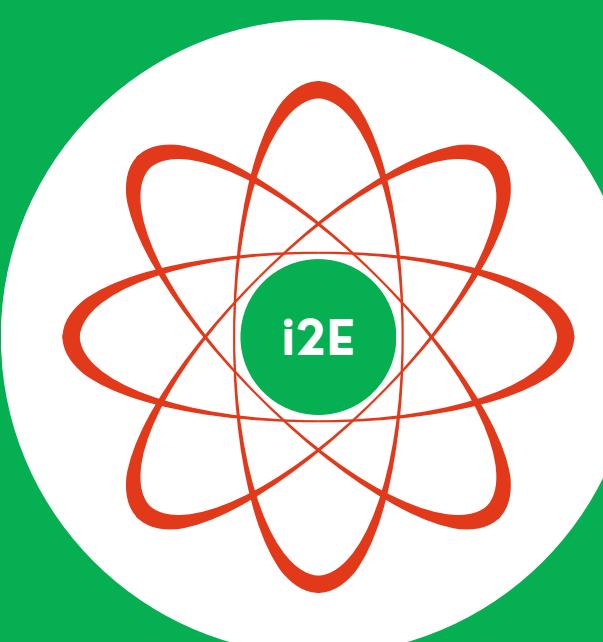


Speed Challenge

EESW Speed Challenge is a fantastic two-hour activity where pupils get to experience the exciting world of CO₂ 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 CO₂ 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.

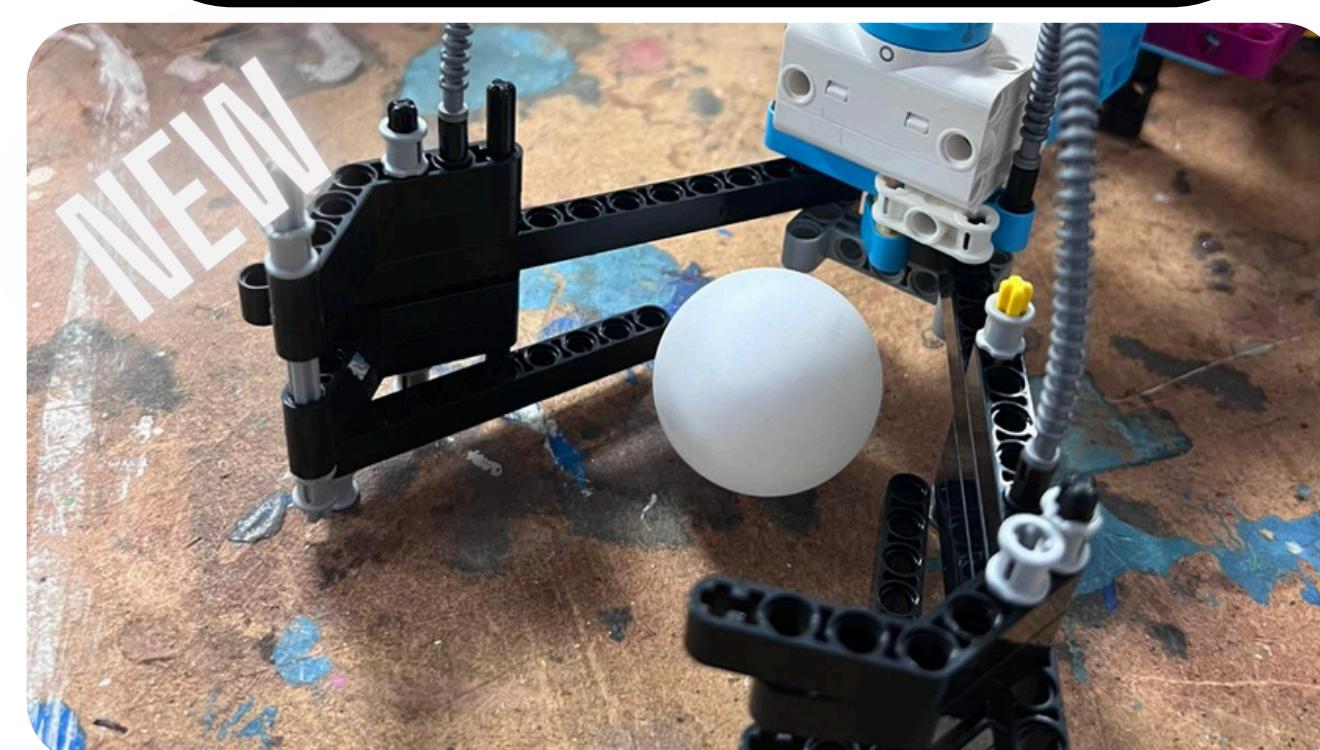


BBC micro:bit Workshop

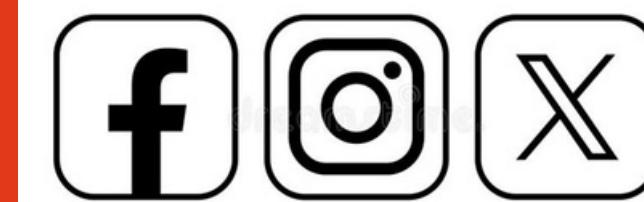
In this BBC micro:bit workshop, pupils are guided through a series of challenges where they will create code to move a microbit robot through a series of tasks. Pupils program a transmitter and receiver to introduce remote control, adjusting their code throughout to improve their robot's performance.

Prosthetics Workshop

Pupils are encouraged to look at the history of prosthetics to discover how their use has developed over time and now work seamlessly in the modern world. In teams, pupils will build their own prosthetic arm using Lego Spike kits and will use code to be able to follow simple instructions.



Website:
STEMCymru.org.uk
Contact:
info@stemcymru.org.uk
or call 01656 669381
to book



Follow us on our socials

@EESWSTEMCymru

Fully funded workshops for secondary
schools in Bridgend



THIS PROJECT IS FUNDED BY
THE UK GOVERNMENT
THROUGH THE
UK SHARED PROSPERITY FUND



Wedi ei ariannu gan
Llywodraeth y DU

Funded by
UK Government



Cyflwyniad i Beirianneg a Gweithgynhyrchu Gweithdai ar gyfer Ysgolion Uwchradd ym Mhen-Y-Bont ar Ogwr

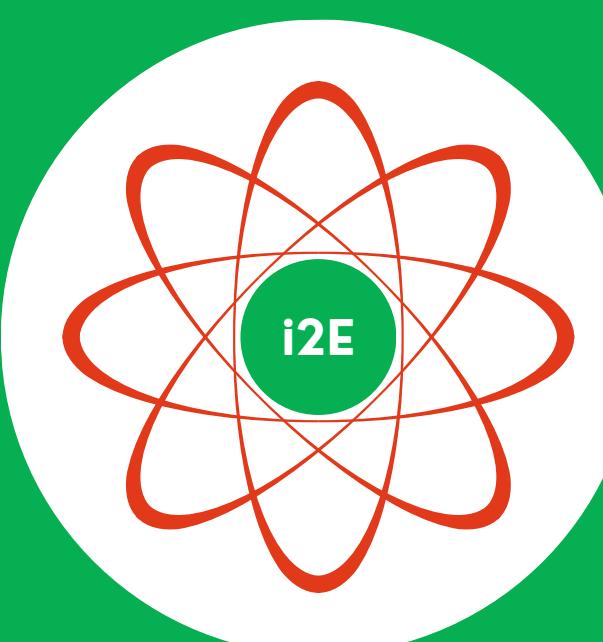


Sialens Cyflymder

Mae Sialens Cyflymder EESW yn weithgaredd dwy awr wych lle mae disgyblion yn cael profi byd cyffrous ceir rasio model wedi'u pweru gan CO₂. 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 CO₂ cyflymaf.

Gweithdy Tyrbinau Gwynt

Gan weithio mewn timau bach, mae disgyblion yn defnyddio ein citiau wedi'u hailgynllunio i adeiladu eu tyrbinau 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 tyrbinau gwynt mwyaf effeithlon.

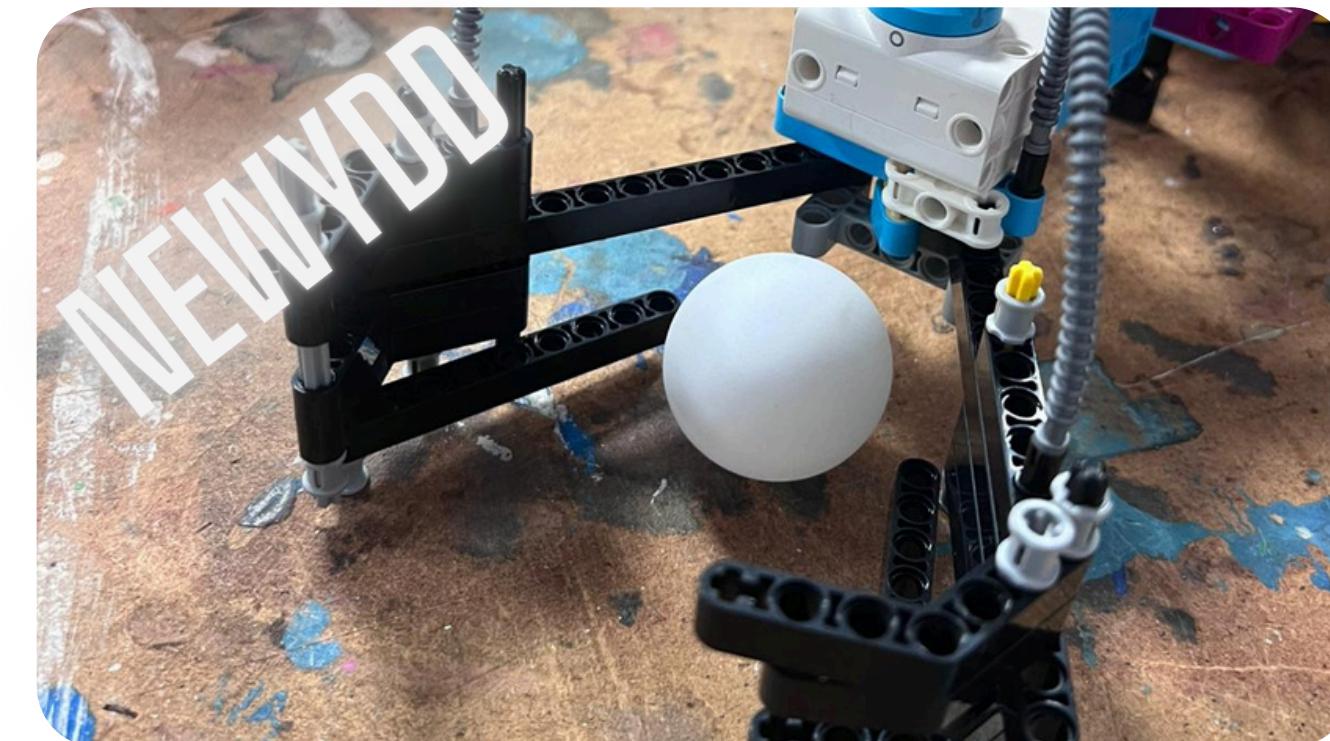


Gweithdy BBC micro:bit

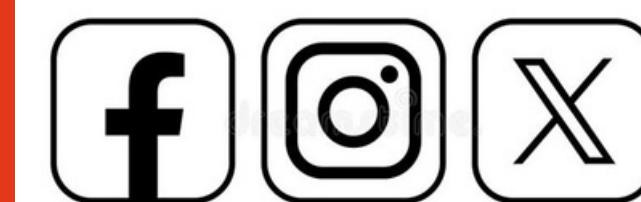
Yn y gweithdy micro:bit BBC, caiff disgyblion eu harwain trwy gyfres o heriau lle byddant yn creu cod i symud robot Microbit trwy gyfres o dasgau. Mae disgyblion yn rhaglennu trosglwyddyd a derbynnydd i gyflwyno teclyn rheoli o bell, gan addasu eu cod drwyddo draw i wella perfformiad eu robot.

Gweithdy Prostheteg

Anogir disgyblion i edrych ar hanes prostheteg i ddarganfod sut mae eu defnydd wedi datblygu dros amser a nawr yn gweithio'n ddi-dor yn y byd modern. Mewn timau, bydd disgyblion yn adeiladu eu braich broshetig eu hunain gan ddefnyddio citiau Lego Spike a byddant yn defnyddio cod i allu dilyn cyfarwyddiadau syml.



Gwefan:
STEMCymru.org.uk
Cysylltwch:
info@stemcymru.org.uk
neu ffoniwch 01656 669381
i archebu



Dilynwch ni ar gyfryngau
cymdeithasol
@EESWSTEMCymru
Gweithdai wedi'u hariannu'n llawn ar gyfer
ysgolion uwchradd ym Mhen-Y-Bont ar Ogwr



**MAE'R PROSIECT HWN WEDI EI
ARIANNU GAN LLYWODRAETH Y DU
DRWY GRONFA FFYNIANT
GYFFREDIN Y DU**