UWE Bristol | University of the West of England

Curiosity Connections

The network for inspirational primary STEM education in the West of England

Who we are

Curiosity Connections is managed by the Inspire Sustainability team in UWE Bristol's School of Engineering. The network brings together science outreach providers in the West:

- STEM and Climate Ambassadors
- WECA Careers Hub
- Industry
- We the Curious
- Aerospace Bristol
- SS Great Britain
- Avon Schools Eco Network

The network for inspirational primary STEM education in the West of England

Resources for autumn

New resources

Book a free day out for your class at UWE and Aerospace Bristol

18 AUG 2022

Free planetarium shows coming to your school!

16 AUG 2022

Threads: Sustainable Fashion online game

22 APR 2022

SUSTAINABILITY

How does our clothing impact people and planet?

22 APR 2022

FAST FASHION SUSTAINABILITY ...

Resources

View resources by Season

All | Spring term | Summer term | Autumn term | Winter term

Or Filter by

Resource Type | Resource Subject | Submit

If You Were an Engineer, What Would You Do?

3 JAN 2024

Inspire Sustainability free workshops available for booking in the new year

11 DEC 2023

Monthly eco calendar by UK Schools Sustainability Network teacher

13 JUL 2023

CLIMATE CHANGE | EARTH | ...

Get your students involved in Clean Air Day – 15 June

25 MAY 2023

Curriculum-linked

All | Science | Design and Technology | Maths | Computing | Citizenship | Art and Design | Geography | Personal, social and health education | English | Music | Physical Education | History

WeCount Schools – explore air pollution and traffic in your local area

The West in Minecraft

Are your students climate leaders?

Climate Change Series: Rising Sea Levels

Load more

Best of the West

All | Science | Design and Technology | Computing | Citizenship | Art and Design | Geography | Maths | Personal, social and health education

The West in Minecraft

Engineering Curiosity

Our City Our Future: Exploring Clean Air and Climate Change

Sustainable Shaun – The Game!

Load more

Funding and Grants

All

Education Prizes 2021

FREE CREST Awards for Bristol Schools

Chemistry Grants Available!

Science Grants Available Now!

Load more

STEM Clubs

All | Science | Citizenship | Geography | Personal, social and health education | Design and Technology | Maths | Computing | Art and Design | English

Our City Our Future: Exploring Clean Air and Climate Change

Six Week STEM Club Challenge – Pack-A-Lunch Challenge!

Free resources and activity boxes from the SS Great Britain

Six Week STEM Club Challenge – Farmvention

Load more

www.CuriosityConnections.net

Newsletters

Years

All 2023 2022 2021 2020 2019 2018 2017

December 2023

Click link below to access December's Cu
Connections Newsletter:
http://mailchi.mp/cec6b42ebfbd/dec202

October 2023

https://mailchi.mp/ce3579edf248/jan-newsletter-prep-for-brit-sci-week-21043961Edit

May 2023

Full of opportunities for connections into local networks, STEM events, and Primary outreach.

BBC Bitesize: The Regenerators

25 JAN 2022

SUSTAINABILITY

British Science Week Activity Packs Now Available

11 JAN 2022

SUSTAINABILITY WORKING SCIENTIFICALLY ...

Create a plan for your school with the Schools Climate Action Planner

5 JAN 2022

SUSTAINABILITY

We Make Our Future

21 OCT 2021

ENGINEERING HABITATS ...

WeCount Schools – explore air pollution and traffic in your local area

13 JUL 2021

SUSTAINABILITY

The West in Minecraft

9 JUL 2021

PROBLEM-SOLVING SUSTAINABILITY ...

Are your students climate leaders?

11 JUN 2021

Climate Change Series: Rising Sea Levels

10 MAY 2021

GLOBAL WARMING OCEANS ...

Primary

AVON SCHOOLS ECO-NETWORK

Shine COMMUNITY PROJECT

UWE Bristol | University of the West of England

www.ASEN.uk/Primary

Partners Schools map

MINISTRY OF ECO EDUCATION

Sign up

We are a **collaboration** of teachers working together to place **sustainability** at the heart of **education**.

STEM LEARNING

Primary Secondary Post-16 Employers STEM Ambassadors

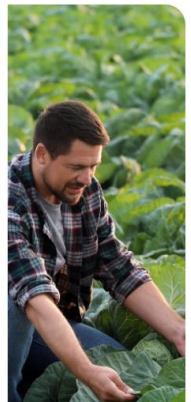
Join the ST

Home > Climate Change Educational Partnership > **Climate ambassadors**

Climate Ambassadors

Climate Ambassadors is a new initiative led by the University of Reading, UKRI and STEM Learning to mobilise experts within the climate sector and support them with engaging with young people and educators.

By supporting Climate Ambassadors to deliver successful interactions with young people the initiative ensures the young people of today are equipped to tackle the climate issues of tomorrow.



Inspire Sustainability

UWE Bristol's free STEM workshops are run by trained outreach coordinators and feature real-life STEM or Climate Ambassadors and students.

We can deliver in your school in the West of England, or you can visit our purpose-built classroom at UWE Bristol's School of Engineering.

DETI Inspire

Engineering a better future

Engagements 2020-2022

10,569

children directly engaged

106,872

children indirectly engaged

1,473

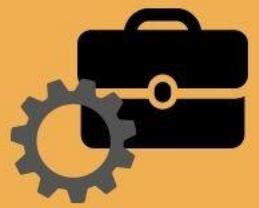
audience feedback responses

452

218

Teachers and schools

456



Engineers engaged

UWE Bristol | University of the West of England

DETI

DIGITAL ENGINEERING TECHNOLOGY & INNOVATION

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We make our future: Final project report (2023)
Report
Fogg Rogers, L., & Cockbill, L. We make our future: Final project report. Royal Academy of Engineering

We Make Our Future is a planetarium show developed by the Inspire Sustainability team at UWE Bristol and outreach experts Explorer Dome. The show celebrates the ingenuity of human engineering, and our potential to tackle huge problems such as the Cli... Read More

The tree(s) of hope and ambition: An arts-based social science informed, participatory research method to explore children's future hopes, ambitions and support in relation to COVID-19 (2023)
Journal Article
Williams, S., McEwen, L. J., Gorell Barnes, L., Deave, T., Webber, A., Jones, V., ...Hobbs, L. (2023). The tree(s) of hope and ambition: An arts-based social science informed, participatory research method to explore children's future hopes, ambitions and support in relation to COVID-19. Children & Society, 37(5), 1356-1375. https://doi.org/10.1111/chso.12767

This paper offers a new child-centred methodology that explores children's visions of their futures, encourages self-reflection and depth and shares children's voices with peers and researchers, as unbrokered as possible. This final stage of a longit... Read More

Amplifying the voices of neurodivergent students in relation to higher education assessment at UWE Bristol (2023)
Report
Chicken, S., Fogg Rogers, L., Hobbs, L., Hunt-Fraisse, T., & Lewis, D. (2023). Amplifying the voices of neurodivergent students in relation to higher education assessment at UWE Bristol. UWE Bristol

This paper reports on a study funded by the UWE Pedagogical Project fund in 2021-2022, which aimed to amplify the voices of neurodivergent (referred to as 'ND') students in relation to lived experiences of Higher Education (HE) assessment practices w... Read More

Inspire sustainability evaluation report 2023 (2023)
Report
Fogg Rogers, L., & Laggan, S. (2023). Inspire sustainability evaluation report 2023. West of England Combined Authority

'Inspire Sustainability' builds on the success of several regional programmes bringing together industry, education, and the community to progress innovation and expertise in sustainable solutions. Developing awareness, knowledge, and aspirations for... Read More

'Make sure to stay safe': Using art and trust to navigate research collaborations through an evolving social crisis (2023)
Presentation / Conference
Webber, A., Jones, V., Gorell Barnes, L., Fogg Rogers, L., Williams, S., McEwen, L., ...Gopinath, D. (2023, April). 'Make sure to stay safe': Using art and trust to navigate research collaborations through an evolving social crisis. Paper presented at Public Communication of Science & Technology, Rotterdam, The Netherlands

Effective communication and engagement around a global pandemic require a thorough understanding of perceptions and experiences of affected groups. Children were significantly impacted by mitigation measures during COVID-19, yet their voices were sel... Read More

Engineering science education: The impact of a paired peer approach on subject knowledge confidence and self-efficacy levels of student teachers (2021)
Journal Article
Lewis, F., Edmonds, J., & Fogg-Rogers, L. (2021). Engineering science education: The impact of a paired peer approach on subject knowledge confidence and self-efficacy levels of student teachers. International Journal of Science Education, 43(5), 793-822. https://doi.org/10.1080/09500693.2021.1887544

Teacher performance has been linked with both self-efficacy and subject knowledge confidence suggesting that it is important to address these aspects within initial teacher training programmes. This study investigated the development of pre-service t... Read More

Making STEM for everyone: Reaching under-served audiences (2020)
Journal Article
Hobbs, L., & Fogg-Rogers, L. (2020). Making STEM for everyone: Reaching under-served audiences. School Science Review, 101(375), 19-23

Validating a scale to measure engineers' perceived self-efficacy for engineering education outreach (2019)
Journal Article
Fogg-Rogers, L., & Moss, T. (2019). Validating a scale to measure engineers' perceived self-efficacy for engineering education outreach. PLoS ONE, 14(10), Article e0223728. https://doi.org/10.1371/journal.pone.0223728

Education outreach in schools has been identified as a critical route to influence children's perceptions and capabilities for Science, Technology, Engineering, and Mathematics careers. Evidence suggests that providing non-teaching professionals like... Read More

Catch 22 - improving visibility of women in science and engineering for both recruitment and retention (2019)
Journal Article
Fogg-Rogers, L., & Hobbs, L. (2019). Catch 22 - improving visibility of women in science and engineering for both recruitment and retention. JCOM: Journal of Science Communication, 18(4), Article C05. https://doi.org/10.22323/2.18040305

There is a significant under-representation of women in STEM which is damaging societal progress for democratic, utilitarian, and equity reasons. However, changing stereotypes in STEM requires a solution denied by the problem-more visible female role... Read More

Curiosity into creation: Can we teach science through engineering? (2019)
Journal Article
Lewis, F., Edmonds, J., & Fogg-Rogers, L. (2019). Curiosity into creation: Can we teach science through engineering?. Primary Science, 156, 8-10

An examination of how the science objectives of the primary national Curriculum can be taught through the engineering design process and through 'real-world' contextualized engineering problems.

DIGITAL TRAILBLAZERS

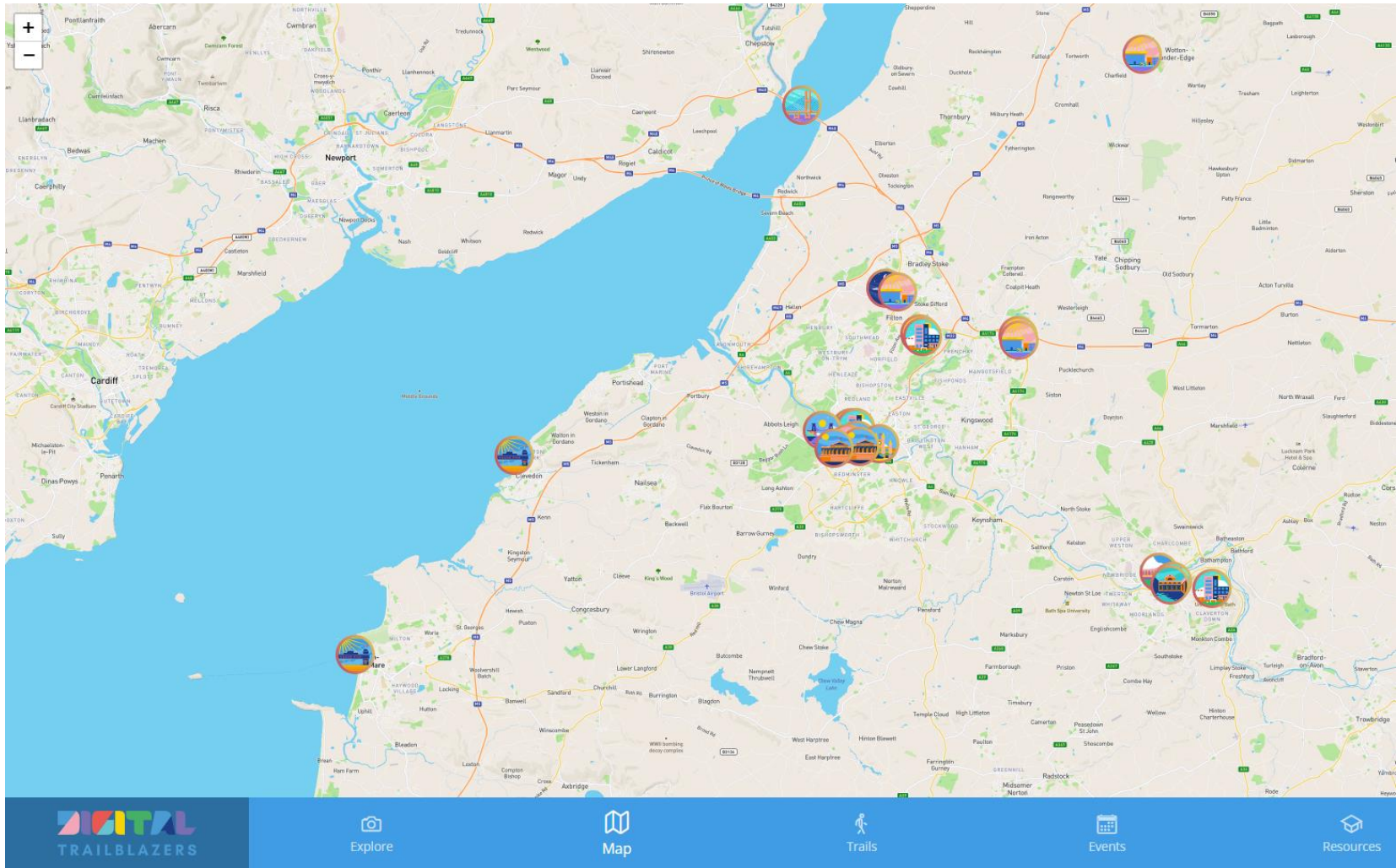
Digital Trailblazers highlights the West's best engineering inventions of the past, present, and future, and links to the organisations and people that create them.

Explore famous engineering landmarks, businesses, and institutions via a series of trails throughout the West of England, which you can choose to explore digitally or on foot.

Read more about the project here

Download on the App Store | GET IT ON Google Play

https://www.digitaltrailblazers.net/resources



The West In Minecraft

Designed for KS2 and KS3

The West in Minecraft educational resources take a digital, play-based approach to engineering using the popular game Minecraft. We support children to develop their own ideas and problem-solving skills, and engage with engineering as a creative and diverse subject that can impact the world around us.

Engineering Curiosity

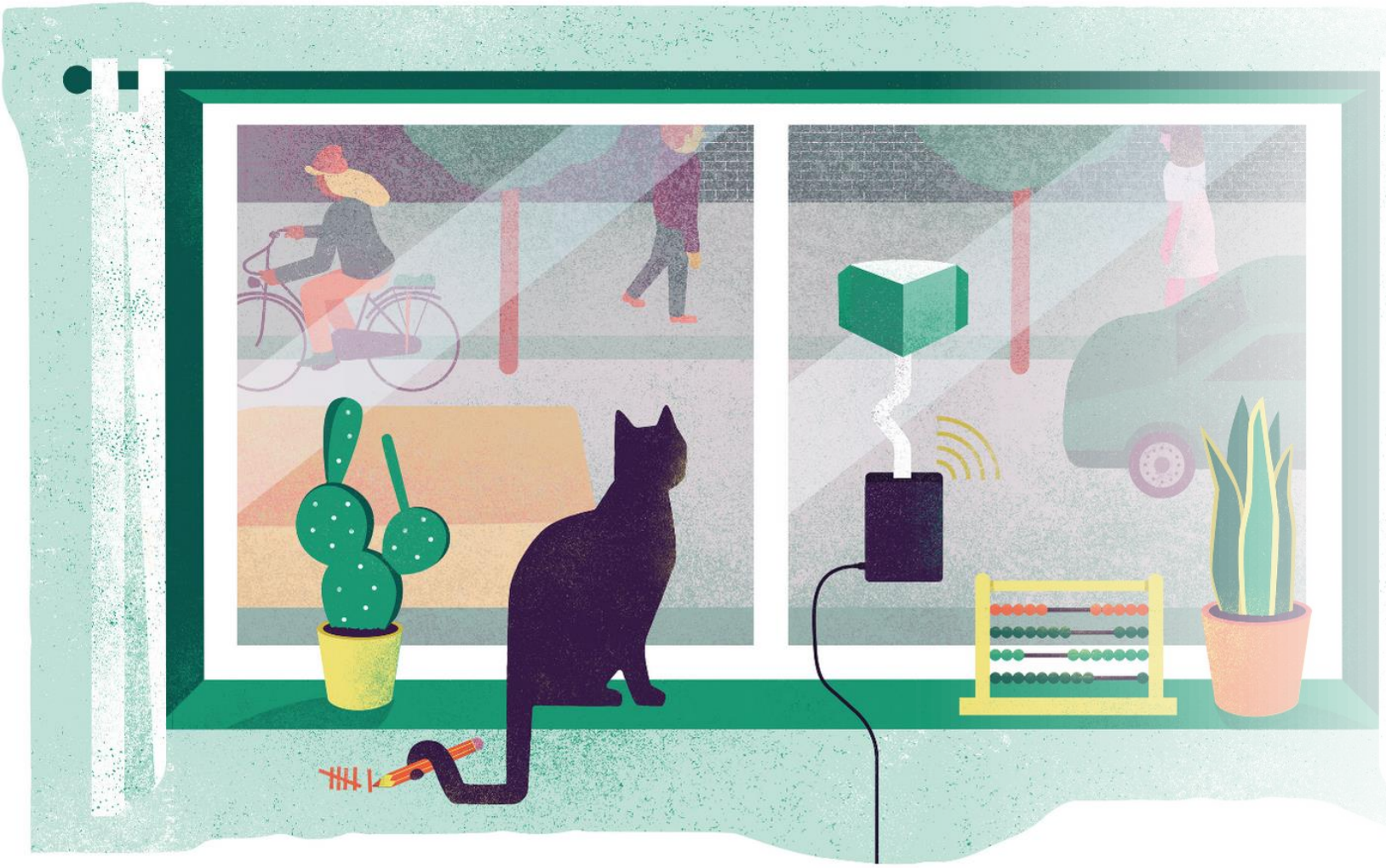
Designed for KS2 and KS3

Engineering Curiosity explores engineering careers and opportunities in the West of England. The resource features a set of top-trump style cards, each one inspired by a real-life engineer from the region, with curriculum-linked worksheets to help connect your classroom learning to the skills needed in the working world.

We Make Our Future

Designed for KS2 and KS3

We Make Our Future is a new interactive, educational & entertaining science show which celebrates the ingenuity of human engineering, addresses current issues around climate change and introduces digital engineering as a relevant and attainable aspiration for all young people. This is a presenter-led experience delivered inside Explorer Dome's inflatable planetarium.



WeCount to get about

Designed for KS2 and KS4

WeCount to Get About uses Raspberry Pi sensors and coding to support young people to learn about the grand challenges' cities face in relation to urban travel, air pollution and the steps we can take collectively to make school streets, and cities, safer, healthier and happier.

WECOUNT Schools

Counting traffic for healthier, happier streets

www.we-count.net

CPD and Training

- **Knowledge Booster sessions**
- **Science through Stories – Storytale Festival**
- **Futures Festival**
- **Festival of Nature**
- **Green Jobs**

THE CLIMATE NEEDS YOU!

SHARE HOW YOU'RE ADDRESSING THE CLIMATE CRISIS AND INSPIRE OTHERS

UWE CLIMATE ACTION HUB

Contact Us

For more information visit
WEB: https://curiosityconnections.net/newsletters/
EMAIL: engineeringourfuture@uwe.ac.uk