

2023

INSPIRATION & INCLUSION IN STEM



STEM **AZING** IMPACT REPORT



**MEET OUR
STEMAZING
ROLE MODELS**



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I WANT TO BEGIN WITH A HUGE THANK YOU!



2023 was STEMAZING! It exceeded our expectations in terms of reach, impact and growth.

The highlight for me was smashing the milestone target of 100,000 STEMAZINGKids experiments being led by women in STEM role models, which is incredible!

It's astonishing what is possible when we collectively pursue a shared mission, and I am hugely grateful to everyone in our STEMAZING community. I hope you feel pride as you read this Impact Report, because you made it possible.





ABOUT STEMAZING

YOU CAN'T BE WHAT YOU CAN'T SEE.

STEMAZING is a not-for-profit social enterprise dedicated to inspiration and inclusion in STEM. We have a proven track record of empowering women in STEM to level-up as confident, visible role models and lead impactful STEM engagement activities in primary schools to inspire young people and smash stereotypes.



OUR INSPIRATION & INCLUSION MISSION

Through our various projects and initiatives, including our award-winning STEMAZING Inspiration Academy programme, we provide training, workshops and coaching to build women's public engagement skills and confidence, so they can level-up as visible role models and lead sensational STEM sessions with young people that leave a lasting impact.

Our commitment to promoting women in STEM is fuelled by the fact that currently only 24% of the STEM workforce comprises women. By providing role models, growing their confidence, and enhancing their skills, we aim to make a significant impact on the representation of women in these fields. Research shows that there are huge diversity and inclusion benefits of giving both young boys and young girls female STEM role models [1].

Through our experiences and collaborations over the past five years, we have consistently delivered high-quality STEM activities, engaged with a large number of young people from ages 7 to 11, and fostered strong partnerships with schools and communities. Our aim is to break the bias and sow the seeds of STEM while children are young, which is proven to be the time when it's possible to have greater impact on STEM perceptions [2].

Through our STEMAZINGKids initiatives, children and teachers participate in hands-on STEM experiments, guided by our women in STEM role models, fostering their curiosity and promoting critical thinking skills. The feedback from teachers confirms we are making a difference by making STEM fun, accessible and inclusive whilst connecting learning to real-life.

[1] Shifting STEM Stereotypes? Considering the Role of Peer and Teacher Gender. Reigle-Crumb et al. 2016.

[2] STEM gender stereotypes from early childhood through adolescence at informal science centres, McGuire et al. 2020



OUR WHY

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We face many global challenges as a society. From pollution to poverty to pandemics.

One of the fundamental enablers of a better, brighter future is STEM - the combination of Science, Technology, Engineering & Maths.

We need a bigger, stronger, more diverse and inclusive STEM workforce to truly tackle the challenges ahead.

Diversity drives innovation, but with only 24% of the STEM workforce being women compared to 51% of the working population - this is not enough! We need more young people to pursue STEM and become our future innovators and problem-solvers, especially girls.

We also need to empower and retain female talent in STEM fields whilst removing barriers to progression to ensure more women become our next STEM leaders.

VALUES

Curiosity, Creativity, Courage

These 3Cs make up our rainbow logo.



VISION

To lead a STEM Inspiration and Inclusion revolution.

We want to ignite inspiration and amplify inclusion through a movement of empowered women in STEM role models that can inspire a future where everyone sees STEM as an option for them, and ultimately we see our STEM workforces represent the society they serve.

MISSION

You can't be what you can't see. Our mission is to empower diverse women in STEM to be more confident visible role models and inspire our future generations of innovators and problem-solvers.



TEAM STEMAZING



Alexandra Knight
Founder & CEO



Jesha Soni
Data Analyst & Programme Manager



Ann Hodgetts
South West STEM Lead



Michelle O'Donnell
Scotland STEM Lead



Sue Dodds
Administration Manager

We are so excited to have grown the team in 2023. We all work flexibly and remotely to balance our family and personal needs around work.

OUR RESULTS

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We reached some **STEMAZING** milestones in 2023!

We have grown our **STEMAZING Women Role Model Community to 385 women in STEM** from many different backgrounds and areas of STEM who have all been empowered to be more confident, visible role models.

They have **collectively led over 129,000 STEMAZING Kids experiments** that Primary School children have completed in schools with a high % of free school-meals.

Our International reach grew with **women in STEM in the UK, Europe, USA, Asia and Africa** taking part. STEMAZING Kids sessions were delivered as far as remote rural parts of Kenya and the Middle-East!



Total impact data since STEMAZINGKids CIC was founded in 2020, with 2023 impact shown in brackets.



129,017

STEMAZINGKids experiments led by STEMAZINGWomen role models. (52,771 in 2023)



32,968

Children engaged in STEMAZINGKids experiments and activities. (12,311 in 2023)



386

Women in STEM took part in the STEMAZING Inspiration Academy (131 in 2023).



566

Schools participated in STEMAZING initiatives. (131 in 2023)



99%

Women said STEMAZING helped them to see themselves as a role model in STEM. (99% in 2023)



96%

Women said they are likely to continue STEM outreach after the programme ends. (100% in 2023)



98%

Women said the programme helped to increase their overall confidence. (99% in 2023)



100%

Schools said the sessions improved the children's awareness and aspirations of STEM. (100% in 2023)



38%

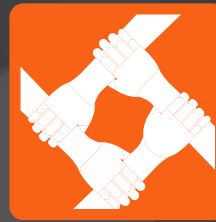
Students who participated in the programme qualified for free school meals. (39.7% for 2023)



100%

Schools said the children had fun during the sessions. (100% in 2023)

2023 STEMAZING ROLE MODELS



35%

Women identified as Black, Asian or ethnic minority (Global Majority)



9%

Women identified as belonging to the LGBTQIA+ community.



15%

Women declared they were neurodiverse or physically diverse e.g. dyslexia, visual impairment, autism.



ROLE MODEL TESTIMONIALS

Since joining the programme, my confidence has sky rocketed and I'm so grateful!

Millie Simpson

The STEMAZING Inspiration Academy provided valuable learning opportunities for me to grow as a person. It is also a fantastic way for more kids from different backgrounds to be able to see a wide range of role models.

Ritika Shukla

One of the reasons for pursuing my dreams was so I can one day inspire young girls in my community, thankfully I did it sooner than I thought.

Oluwatomilayo Akinsola

I highly recommend STEMAZING to anyone who is seeking a transformative experience that will ignite their passion for STEM and empower them to make a difference. This program is not just about education; it's about building a supportive community, fostering innovation, and shaping a brighter future for STEM.

Sandra Napoleone

STEMAZING will stay with me throughout my entire career. It was an absolute joy to take part in. I can't put into words how amazing it was.

Margaret Rafter



2023 STEMAZINGKIDS

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Stemazing Inspiration Academy
Partner Schools
Geographical Locations



SCHOOLS TESTIMONIALS

The sessions were fully planned and delivered with confidence and enthusiasm from our STEMAZING role model. Having a breakdown of what each lesson would be about and the resources it would require, made it easy to organise prior to the session, ensuring that the time was spent effectively. Despite being delivered online, the children were 100% engaged and enthused.

Braunstone Frith Primary Academy



A thoroughly enjoyable experience for the pupils and teachers. We learned so much and had a lot of fun with the experiments. Each child participated fully and said how much they loved being part of STEMAZING.

St Bernadette's School



The children and I looked forward to the sessions and enjoyed the investigations etc.

All Saints Primary



The children loved their weekly STEM sessions with Rocio. They loved learning about the different parts of STEM and taking part in fun, practical activities that helped their understanding.

Reevy Hill Primary School

Stanwix School
@StanwixSchool

A huge thank you to @STEMAZING1 and Charlotte @NGNGas for our brilliant STEM after school clubs. #STEM



Thomas Buxton Primary School
@thomasbuxtonsch

Year 4 have such a wonderful time in their STEMazing sessions each week! Thank you so much to the team @STEMAZING1 #STEM #potentialenergy

William Byrd Primary Acad...
@WBPAcademy

More science fun in our STEMazing science sessions!



Chiltern Primary School
@ChilternPSHull

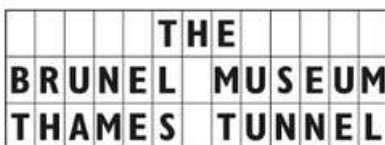
3LM enjoyed their 4th STEMazing session today, learning about aerodynamics and making different types of spinners to observe how gravity effects them. @STEMAZING1 #y3science @thrivetrust_UK



THANK YOU TO OUR WONDERFUL PARTNERS

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We couldn't run these free programmes for schools without the STEMAZING support and sponsorship from our Partners - THANK YOU!



AND THERE'S MORE...

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In addition to our core programmes we've been busy with some other fantastic initiatives too!

- Training mentors through our STEMAZING 'Maximise Mentoring Impact' programme to support external mentoring schemes including Brunel University London, University West of England and Women in Nuclear UK.
- A series of training sessions for STEM Ambassadors at the Institution of Mechanical Engineers, including an event with the Department for Education.
- Keynote talks and Workshops to celebrate International Women's Day, INWED and other key events with organisations such as CBRE, Capgemini, Arcadis, The Common Room and Northumbrian Water Group.
- Be a STEM Superhero Workshops for schools to celebrate British Science Week and STEM Live at the Science Museum in London!
- A STEMAZING-wiN Pilot to target Year 8 students.
- Building our STEMAZINGWomen Membership content with input from fabulous external expert guests to grow the portfolio of empowerment and inspiration tools that benefit women in STEM.
- Developing bespoke STEM activities for organisations that want to grow their STEM outreach portfolio, such as Centrica, Ramboll and Dazzle & Fizz.



WHAT'S NEXT?

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We're super excited for 2024 with a new STEM Outreach programme in Partnership with Equal Engineers and funded by EkoSTEM that will involve us training women in STEM role models and delivering lots of fun in-person STEMAZINGKids sessions in the South West of England and Scotland.



We are also launching our STEMAZING-SEND Focus Group led by Anna Preston, one of our STEMAZINGWomen Role Models who is an autistic engineer and passionate about how we can develop our STEMAZINGKids activities to target children with Special Educational Needs and Disabilities.

We will be continuing to run two rounds of our award-winning Inspiration Academy, so if you know women in STEM and Primary Schools that would like to take part for FREE please signpost them to us!

**PARTNER
WITH
STEMAZING
FOR 2024**

To grow our reach and impact even further we will be welcoming new STEMAZING Partners for 2024, so if you work for a STEM organisation that wants to get involved in our mission and support us through Partnership then let's have a chat!

Thank you for everything you do to support diversity, inclusion and inspiration in STEM - together LET'S BE THE CHANGE WE NEED TO SEE.



CONTACT US

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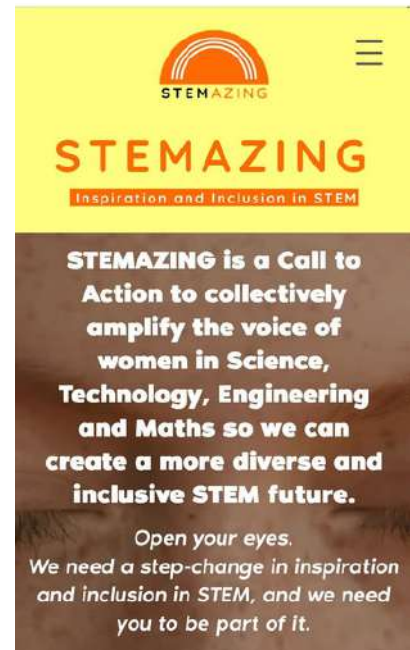
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