Our STEM Challenge



STEM represents...

- Science
- Technology
- Engineering
- Mathematics





Our STEM Challenge = SDG5 GENDER EQUALITY

Achieve gender equality and empower all women and girls

STEM Challenge projects encompass:

SDG1 - End poverty

SDG2 - End hunger

SDG3 - Good health and wellbeing

SDG4 - Quality education

SDG5 - Gender equality

SDG6 - Clean water and sanitation

SDG7 - Affordable and clean energy

SI PROGRAMME FOCUS AREAS



Our STEM Challenge and Projects encompass

- ECONOMIC EMPOWERMENT
- EDUCATION
- ENVIRONMENTAL SUSTAINABILITY
- FOOD SAFETY AND HEALTHCARE
- ADVOCACY



WATER FILTRATION

FOOD

SOLAR ENERGY

CLOTHING

SECURITY OF PEOPLE & PROPERTY

MEDICAL

EDUCATION

RECYCLED SHOES

MOSQUITO NET ONESIE

~ anti-malarial patch ~ viper venom for medical research

AGRICULTURE ~ crops ~ composting ~ fertilising

KINETIC ENERGY

WATER COLLECTING & CARRYING

Water



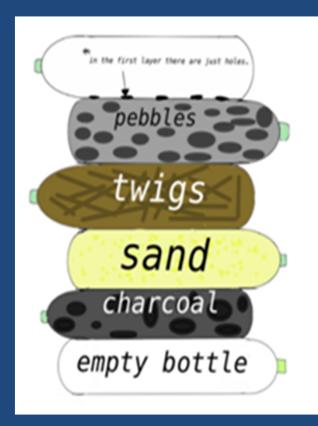
Dirty to clean water through evaporation and condensation



Water filtration and carrying

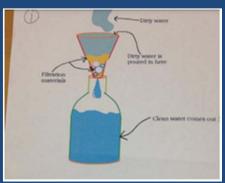








Diversity of Projects: Water filtration and carrying







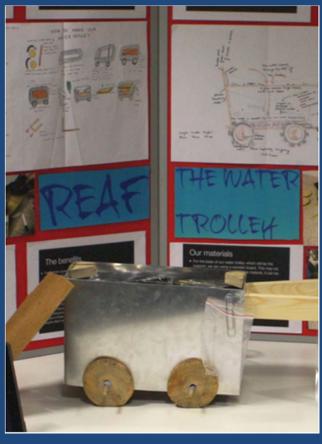




Water filtration and transport in Chile







Water carrying







Water carrying





Water filtration



Diversity of Projects: Solar Cooking







Boat of recycled plastic bottles for use in floods in Bangladesh ...







STEM teacher testing the product!





dical: Harvesting Snake om for research





Also ...

Anti malarial patches

Mosquito net 'onesie'

ersity of Projects: Iroponic food production





version of etic energy of er to useful rgy for pitals





ebooks from recycled paper and cardboard

ool bags from recycled plastic bags







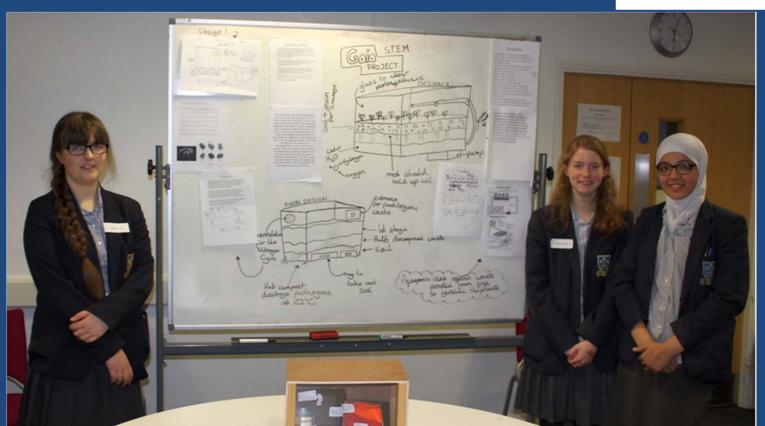
ersity of Projects: ycling of shoes to fit all sizes





ersity of Projects: nbatting food loss





cess!







ne Statistics



UK requires 100,000 more professional scientists, engineers and echnologists each year – the forecast for 2012-20

Office of National Statistics and others]

UK has the lowest percentage of female engineering professionals n Europe, at less than 10%, while Latvia, Bulgaria and Cyprus lead with nearly 30%

Vince Cable, MP, in The Guardian 4 November 2013]

3% of engineering and technology undergraduates in the UK are emale compared with India where over 30% of engineering students are women

Woman in STEM facts and statistics 2012 15 LETI

na Agrawal ior Structural Engineer of the Shard







Inspiring and constant supporter of our STEM Challenge



SI Bournemouth are proud to be part of 'Engineering the Future'