

## **Soroptimist International (SI) Bournemouth Group**

### **STEAM Challenge (Science, Technology, Engineering, Arts, Maths) 2021/22.**

Each year SI Bournemouth challenge teams of girls in years 8 and 9 at local schools, to use STEAM knowledge and research to create a sustainable solution to help improve the lives people in the poorest parts of our world. Each team consists of up to 5 girls and schools may enter as many teams as would like to participate.

Elements the girls need to produce:

1. Report containing:

- A design brief outlining what the need is, where, who for and why.
- Evidence of research into possible solutions.
- A description/plan of the solution the girls have come up with, including drawings/photos.
- Evidence of any tests/experiments completed.

2. A physical model/prototype to demonstrate their solution.

The 2021/22 Challenge Timetable:

The next SI STEAM Challenge starts in October 2021. Girls have until the end of February 2022 to submit their completed project report. A team of judges from local STEAM based industries will judge the heats and then the finals, including the physical model/prototype and a short presentation from the team, which will take place at Bournemouth University during March 2022.

For further information and support on taking part in 2021/22 STEAM Challenge please contact SI Bournemouth via email at: [stemsibournemouth@gmail.com](mailto:stemsibournemouth@gmail.com)

[Previous STEAM Challenge winners:](#)

[2020/21](#)

Year 9 - 'Toxicus' from [Bournemouth School for Girls](#) who created a gas mask out of recycled materials to protect people working in e-waste dumps in Accra the Capital of Ghana. These people collect the useful materials from all the old electrical equipment, but toxic gases from the chemicals that the electronic waste produces are released into the air, which can make them ill.

Year 8 - 'Ed2U' from [Bournemouth School for Girls](#) who created a local language education box to help provide an education for children who can't get to school in villages in poorer countries and to be able to quickly set up education centres whenever a disaster strikes.

[2019/20](#)

Year 9 - 'LEW' from [St Peters School](#) who produced a sustainable, eco-friendly sanitary pad to help end period poverty in India which will help increase hygiene rates, the number of girls still attending school and awareness of the menstrual cycle.

Year 8 - 'Po-Tential' from [Knighton House School](#) who focussed on Nepal and the need for cooking all ingredients using one source of heat; this was to reduce the need for deforestation when using wood as a fuel.

For further inspiration of what women in science can achieve please see the SI Middlesbrough e-book *Overcoming the Odds*, 32 brief biographies of Women Scientists.