

Global Project Ideas are a series of ideas for you to use as the basis of a project focusing on solutions to Global Issues. These ideas arise from the Global Goals or Sustainability Development Goals (SDGs) and Practical Action's work around the world.



What are the Global Goals?

The Global Goals are 17 goals developed by the United Nations in 2015 and signed up to by 32 countries around the world including the UK. They aim to end poverty and protect the planet by 2030.

Find out more: un.org/sustainabledevelopment/sustainable-development-goals

Practical Action

The development charity **Practical Action** is one of a number of organisations working in developing countries to help reach the SDG targets by 2030. The charity has a focus on technology, working with communities on projects to help find practical solutions that make a big difference to people's lives.

They include;

- **Energy projects** – to provide access to renewable energy to help light homes and cook food.
- **Food and agriculture projects** – to help people produce foods in regions particularly affected by climate change.
- **Urban water and waste projects** – to improve peoples access to drinking water, sanitation and waste services for the urban poor.

- **Disaster Risk Reduction projects** – to prepare people for the impact of flooding and drought with flood resistant homes and food production systems such as floating gardens.



Find out more about Practical Action
practicalaction.org/our-aims

Using Global Project Ideas

Based on the Global Goals and Practical Action's experience of working on technology-based projects, the **Global Project Ideas** sheets are available to help get you started on developing your project.

The sheets focus on the Global Goals where Science, Technology, Engineering and Maths (STEM) play a critical role in helping to reach the targets set by the UN.

CREST Awards

Global Projects make a great starting point for a CREST award. Look at the diagram below and the website crestawards.org to help decide which level is right for you.

Having a mentor to support you is a good idea at all levels, but particularly for silver and gold levels. Ideally your mentor should work in a STEM field related to your project. To help find a mentor contact the STEM ambassador scheme STEM.org/stem-ambassadors; your nearest University and local STEM businesses.

You can enter your CREST award into the Big Bang competition, To find out more go to competition.thebigbangfair.co.uk

A CREST award can count towards your skills section of any Duke of Edinburgh Award, go to help.crestawards.org/portal/kb/articles/using-crest-for-the-duke-of-edinburgh-s-award to find out more.

It also counts towards the Children's University Passport to learning childrensuniversity.co.uk

Extended Projects

If you are looking for an idea for an extended project; a project as part of your Baccalaureate, or an A level coursework project a **Global Project** could be for you.

The Global Goals and Practical Action's international project work offer great contexts for developing ideas for extended projects.

Select an area of interest from any of the five **Global Project Ideas** sheets.

Follow the weblinks on the sheet to help you define further which particular area of international development work you could investigate/explore using your STEM skills.

Once you have made a decision draft a project title and aims. The next step is to get the project formally approved by the examination board before fully developing your project.



Discovery

- 10-14 years (typically)
- 5+ hours project work
- Students complete a CREST Discovery passport and feedback via a group presentation
- Assessed by a teacher



Bronze

- 11-14 years (typically)
- 10+ hours project work
- Students complete a CREST student profile form or workbook
- Assessed by a teacher



Silver

- 13-16 years (typically)
- 30+ hours project work
- Students write a project report and complete a CREST student profile form or workbook
- Assessed by an external assessor



Gold

- 16-19 years (typically)
- 70+ hours project work
- Students write a project report and complete a CREST student profile form or workbook
- Assessed by an external assessor

GOOD LUCK!