

FREE

STEM Challenges from Practical Action

...Perfect for CREST awards

Our popular STEM challenges

- ✓ Are enquiry based, problem solving and encourage pupils to work scientifically
- ✓ Help pupils gain **CREST awards** at both primary and Secondary
- ✓ Link to the UK science curriculum and the Global Goal (SDGs)
- ✓ Engage and inspire young people of all ages in STEM subjects
- ✓ Are great for STEM/science clubs, enrichment days and transition
- ✓ Set learning in a real world global context



New Ditch the Dirt

Pupils look at the problem of access to clean water in Kenya then design, build and test a water filter of their own.



Squashed Tomato Challenge

Challenge your pupils to build a model of a system that can move tomatoes down a mountainside in Nepal...without squashing them!




Wind Power Challenge

Pupils research renewable energy solutions around the world then design, build and test their own wind powered machine.



Plastics Challenge

After making bioplastics and looking at use of plastics in Nepal pupils reuse or recycle plastics to produce a new product of their own.



Beat the Flood

Give pupils the opportunity to test different materials and structures then use results to design, build and test their own model flood-proof house.



Design for a Better World

Pupils research technology in the developing world then use their STEM skills to design new technologies to help achieve the Global Goals.



Stop the Spread

As well as designing and building a model hand washing station pupils produce education materials for primary children in Kenya.



Floating Garden Challenge

How do you grow food in Bangladesh when your land floods? Expect squeals of delight as pupils test their floating gardens.

STEM challenges include teacher's notes, pupil worksheets, PowerPoints, posters, certificates and more... all free to download



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