

Practical Action - links to the science curriculum in England



We hope the information below will help you when planning your school's science curriculum.

As well as being suitable for lessons our resources are very popular for Science/STEM clubs. Our STEM Challenges can be used to gain CREST awards and as the basis of projects to enter into the Big Bang Fair. All our materials are set within a strong global context, and many explicitly link to the UN Sustainable Development Goals (SDGs) also known as the Global Goals. For activities specifically on the SDGs; technical briefs; images; posters and all the resources below please go to practicalaction.org/schools.

Primary - KS1 and KS2

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Plants Pumpkins against poverty Floating garden challenge	Plants Floating garden challenge Sandy seeds (Upd8) Pumpkins against poverty Growing food (concept cartoon)	Plants Regreen the desert Floating garden challenge Sandy seeds (Upd8) Pumpkins against poverty Growing food (concept cartoon) Water conservation (concept cartoon)	Electricity Solar challenge Wind power challenge Energy and the Global Goals	Properties and changes of materials Plastics challenge Ditch the dirt Beat the flood Monsoon proof roof (Upd8) Water conservation (concept Cartoon) Smoky homes Recycling (concept cartoon) Yummy yoghurt makers	Electricity Flood alert (Upd8) Solar challenge Energy and the Global Goals Moja island
Everyday materials Floating garden challenge	Uses of everyday materials Floating garden challenge Monsoon proof roof (Upd8) Beat the flood Beat the flood video Recycling (concept cartoon)	Animals Regreen the desert Pumpkins against poverty Marvellous microbes (video) Yummy yoghurt makers	States of matter Cool pots (Upd8) Water conservation (concept Cartoon)	Forces Water !Water! Squashed tomato challenge Pump it (video) Floating garden challenge	Animals including humans Pumpkins against poverty Stop the spread Regreen the desert Pump it (video) Marvellous microbes (video) Water!Water!
	Animals including human Stop the spread Marvellous microbes (video)				
	Living things and their habitats Floating garden challenge Pumpkins against poverty Sandy seeds (Upd8)				

Secondary - KS3

Biology	Chemistry	Physics
Nutrition and digestion Iodine initiative (Upd8) Pumpkins against poverty Regreen the desert Floating garden challenge Design for a better world Global project ideas Growing food(concept cartoon) The meal deal	Atoms, elements and compounds Plastics challenge Recycling (Upd8) The meal deal	Calculation of fuel costs and cost in the domestic settings Solar challenge Smoky homes The meal deal Wind power challenge Moja island Energy and the Global Goals Global project ideas Free energy (concept cartoon)
Gas exchange systems The meal deal Smoky homes	Materials Global project ideas Beat the flood Ditch the dirt Worldwide washing Global project ideas	Energy changes and transfer Squashed tomato challenge Food preservation Cool pots (Upd8) Smoky homes Flood alert (Upd8) Wind power challenge Global project ideas The meal deal
Cells and organisms Food preservation Wild weather		
Gas exchange Food preservation		
Cellular respiration Marvellous microbes (video)	The periodic table Iodine initiative (Upd8)	Pressure in fluids Regreen the desert Floating garden challenge Pump it (video)
Relationships in an ecosystem Regreen the desert Wild weather Stop the spread Incredible inoculations Design for a better world Floating garden challenge Global project ideas	Earth and Atmosphere Plastics challenge Regreen the desert Reuse or recycle (Upd8) Design for a better world Moja island Wild weather Recycling (concept cartoon) Water conservation (concept cartoon) Global project ideas	Forces Squashed tomato challenge Wind power challenge Global project ideas
Reproduction Pumpkins against poverty Floating garden challenge Global project ideas	Pure and impure substances Ditch the dirt Stop the spread Global project ideas	Electricity and magnetism Flood alert (Upd8) Solar challenge Global project ideas