

**Thank you for looking at Practical Action's Beat the flood. We appreciate it is a really difficult time for you right now, trying to balance many things including keeping your child/children interested in learning.**

Whilst you are not expected to 'home school' we know that many parents and carers like yourself are looking for activities you can do together as a family and/or that your child can do with minimal supervision.

### The challenge

To build a model of a flood-proof home for a family in Bangladesh.

### Why would I choose Beat the flood?

Beat the flood is one of several Practical Action STEM (Science, Technology, Engineering and Maths) Challenges that are very popular with schools. They are often used in STEM/science clubs, for enrichment days and events like British Science Week. This is because they fit the curriculum and are hands-on activities children love. You can see them all at: [practicalaction.org/stem](http://practicalaction.org/stem)

Each challenge looks at a problem faced by a community in the developing world, and asks the children to develop a model of their own solution. They then have the chance to look at the real life solutions already in place around the world with the support of Practical Action. Because they are set in different countries they also give children the opportunity to find out more about those countries and the lives of people who live there.

Most of our challenges, including this one, don't require any fancy science equipment, children can take part in the challenge using materials readily available in your home. Please look at the Teacher's guide and PowerPoint before you get started. You do not need to do all the activities, just select what you and your child/children find interesting and will enjoy doing.

### What will we need?

**For the model:** modelling equipment e.g. lego, duplo, cling film, foil, plasticine, lolly sticks, straws, plastic bottles, string, glue, cardboard, straws and K'nex.

**For testing:** Best to test outside with a hosepipe or watering can, but the bath will work too!

### What age is it suitable for?

Because of the open-ended nature of our STEM challenges they are suitable for a wide age range, so you could easily set them as a project for a 7 year old or a 14 year old, or even (depending on your children!) get them working together on one.

### Anything else I should know?

Each challenge has a certificate you can print out for your child/children. We think this is a nice touch and something to put on the fridge!

Also, all our challenges are accredited for the CREST Award scheme, Discovery level. You can go on the website and submit your child's work to gain an award. More details at: [crestawards.org](http://crestawards.org)

We hope you and your child/children enjoy our challenges. If you are happy to share any videos or pictures to inspire other parents and carers we would really love to see them! Please email them to us [schools@practicalaction.org.uk](mailto:schools@practicalaction.org.uk) or tag us on twitter @PA\_Schools or Facebook /Practical Action Schools.

