**Beat the Flood**

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**G –** Your goal is to research and sketch a design of a home for your community in southern Bangladesh that is able to withstand the effects of flooding, and make a model of your design so you can test it in the flood conditions.

**Escaping Environmental Change https://www.youtube.com/watch?v=Yj6ee\_UZ-Io**

**R –** You are a community member from southern Bangladesh and you want to beat the floods by making sure your homes are flood-proof before the next rainy season. You will decide on a house in your community that needs the most remodelling, and redesign this house by creating a model and putting your house through water tests.

**A -** At the end of the challenge, your will be given 5 minutes to visually present your work to the Bangladesh community and they will decide whether your house design should be chosen for their community.

**S -** Imagine living with the constant danger that your home could be flooded at any time. Our climate is changing and for many people living near riverbanks, the fear of flooding is never far from home. People living in poverty are worst affected and suffer most from the effects of flooding. Living in poverty makes it more difficult for people to cope with flooding and recover from the effects as they have less money to rebuild their lives

But…

If people are prepared for floods, they are more likely to recover quickly and less likely to feel disaster.

**P –** You will need to complete each page in your packet along with….

* Design sheets - develop a design specification, design ideas and final design of your flood-resistant home
* Construct a model of your home (no larger than 30cm by 30cm)
* A flood test - squirt with a hose for 2 minutes from 1 meter away
* A Visual Presentation

**S –** Compute with Multi-Digit Numbers, Ratios and Rates and Area, Surface Area and Volume.