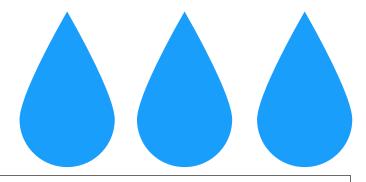
BEAT THE FLOOD

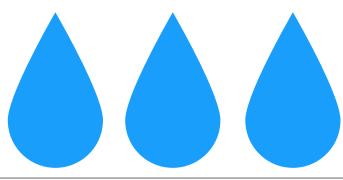
PowerPoint notes



1.	BEATTHE FLOOD A challenge to shoring and builds home service and builds home service with the shoring and the	
2.	Where its the world? Lock of the world? Lock of the world? Lock of the world on	Divide the class into small groups and hand out the Where in the world pictures and World map (N.B. this needs to be printed on A3). Ask pupils to match the photos to countries.
3.		Discuss that flooding is a problem faced across the world, including the UK. Prompt questions could include: - Have you ever had any experience of dealing with flooding? - Do you think some countries experience more flooding than others? - Do you know what might cause flooding, or make it worse?
4.	Channel your glovely from history and not from Anti-freely and the channel of the	Ask pupils if they think the impact of flooding would be different for people in different parts of the world. You may wish to develop word clouds to summarise the feelings of the people whose homes have flooded in Europe and in a developing country.
5.	The residing section for the contract of the c	You may wish to stress that flooding is devastating for anyonebut some in countries such as Bangladesh people are feeling the severe impact of climate change to a much greater degree. There has always been a rainy season in Bangladesh, but now the rain lasts for longer and is heavier than in the pastwith devastating effects. Recovery is also harder because the people there live in poverty.
6.	tions are of mount in our of the particular plants of the control	Pupil should now be aware that flooding is a global problem. Introduce the Sustainable Development Goals (SDGs) also known as the Global Goals.
7.	The transient increases can detect the control of t	This is the full set of SDGs. You may want to print this out for display and/or to hand out. An explanation of each Goal is provided as a pupil activity sheet. SDG 11 Sustainable cities and communities is the Goal mostly closely linked to this challenge. There are two activities recommended in the Teacher's notes that you can carry out to aid understanding and engagement with the SDGs. Others can be found at practicalaction.org/schools/sdgs
8.	BEAT THE FLOOD Challenge	If time permits please give pupils the opportunity to do the starter activities on structures and testing materials for properties before embarking on the main challenge. Explain that the aim of the challenge is to design and build a model of a flood –proof house for a fictitious island called Watu island.
9.	Water bland You can summer the grant of the sale of t	Divide pupils into small groups Hand out the Watu island map and a community card to each group.







10.	When at take an Wage? Leaf at the many of the and and a second and a	Have a discussion with your class about what makes some areas and people at higher risk of floods that others. It may include proximity to a river bank, terrain, building such as schools, health centres may also be more vulnerable when dealing with younger or elderly people. For more able or older pupils – you might want to encourage pupils to look at some of technologies used by communities in flood-prone areas, such as early warning systems and evacuation procedures.
11.	A few things to remember A result of the control o	Hand out all the relevant pupil activity sheets and encourage pupils to work though their ideas and the specifications before building their model. Show them the video from Practical Action and Ortis Deley filmed in Bangladesh. When pupils start to develop their ideas encourage them to look at the materials information cards, to see how modelling materials represent 'real-life' materials. For example, lolly sticks represent planks of wood. We suggest you give a maximum budget of £500 and encourage them to reducing cost where possible by using locally available materials. You could also introduce a sustainability element.
12.	At the cond of proof shadings can will be seen a state of proof shadings can will be seen a state of the cond of t	We suggest that pupils present their model to the rest of the class reflecting on how well they worked together, problems they solved, etc. (this will be necessary if you are planning for your pupils to gain a CREST Discovery award). Hand out the <i>Team feedback sheets</i> , one per pupil so they know what criteria they will be working to.
13.	Solutions in Englands Evaluation in Management Evaluation in Managem	This is a brief case study of Shilna, who appears on the 'Beat the Flood' video on YouTube bit.ly/pasbtf
14.	Celebrating Success	
15.	And the control of th	Having completed Beat the Flood pupils can go on to use their work in a number of ways including taking part in the Big Bang competition, the Great Science Share for Schools, British Science Week, and gaining a CREST award. More information in the teacher's notes.
16.	Previous ACTION We be upon your origined taking the food STEM challenges. the food STEM challenges. page 200 00 00 00 00 00 00 00 00 00 00 00 00	





