

Bang Goes the Theory: Series 4

Putting science to the test, from earthquake proof bridges to homemade lasers.



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Programme running: 8 x 30 mins Production: BBC

The Bang team are back with the best stories from the world of science and technology. Flight engineer Jem, bio-chemist Liz, science-mad Dallas and roving reporter Dr Yan answers a range of questions, including whether we should worry about GM food, what a calorie actually is, how should we recycle and how does GPS work?

Episode One

Liz looks at the science of IVF and follows two couples undertaking treatment, while Jem attempts to become the first man to go 360 degrees on a playground swing. Dallas launches a new mass participation experiment looking at TV theme tunes and how we react to them.

Episode Two

Jem investigates what makes stuff sticky and makes three homemade glues to test on the other presenters. Yan puzzles the public with an optical illusion and Dallas visits the supersonic car that aims to break the land speed record.

Episode Three

Jem explains what a calorie is and then gets the others to demo calorific value by taking part in the Oxbridge Boat Race Risk. Yan goes to the Houses of Parliament to test politicians' abilities to calculate risk.

Episode Four

Liz visits the Pacific Tsunami Warning Centre in Hawaii and Dallas visits California to see how the new Bay Bridge will be earthquake proof. Yan's disgusting demo proves why refreezing food is a bad idea.

Episode Five

Jem explains what a laser is and builds one at home, while Yan recreates a demo to calculate the speed of



light. Dallas looks at the rise of Citizen Science and what projects we can all get involved with.

Episode Six

Liz looks at the science of Genetically Modified (GM) food in Hawaii and Dallas tries to remedy Jem's dust allergy by making him eat worms. Yan gets out his violin to demo how to shatter glass.

Episode Seven

Liz conducts a genetic version of 'Who Do You Think You Are' on the rest of the team and Jem builds a singing road. Yan looks at what makes a good dancer and if that makes you attractive.

Episode Eight

Jem visits a mega-plant in Sussex to investigate the future of recycling. Yan uses science to crack the tablecloth/friction magic trick. Dallas explains how GPS works and how it is changing.

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