Past Big Science Event Investigations

These are provided to show you the wide range of ideas that students have investigated as part of the competition – this is just a small selection of the hundreds of exciting investigations that have gone through to the cluster judging stages!

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| **Early Years** | Which parachute stays in the air the longest?  What is fragile?  How can we make the 3 Pigs house waterproof?  Do Bigger Fruits Make Bigger Splats?  Which soap is the slippiest?  Are bigger snails faster?  Which stick has the biggest splash?  Which leaf is the heaviest?  Talking Telephones  Who is best at balancing? |
| **Year 1** | Can you make bubbles different colours?  Which material would make the best lighthouse for Mr Grinling?  What materials burn in fire?  Which fruits will float?  Strongest bridge.  Which ball creates the most noise?  Which ball drops to the ground the quickest?  Are there any colours hidden in our felt tip pens?  What happens to choc in different liquids?  Can the Mad Hatter avoid the soggiest biscuit? |
| **Year 2** | Which drink melts the fastest?  What is the fastest material for a zipwire?  Which material is the best for a parachute canopy?  What material would make the softest pair of gloves?  Do girls see better than boys?  Can 7 year olds run faster than 6 year olds?  Which tomato sauce is runniest?  Which design of paper aeroplane travels the furthest?  How can we keep flowers fresh for longer?  Where do seeds grow best? |
| **Year 3** | Do mirrors always reflect?  Which colour makes apple juice the tastiest?  How long does it take for a grape to turn into a raisin?  Does the topping affect which way round toast lands?  Which chocolate melts the quickest?  What ball goes further if it is kicked or thrown?  What material protects an egg the most?  Can Guinea Pigs see colour?  How many breaths to blow up a balloon?  What is a bird's favourite food? |
| **Year 4** | Which ball is the bounciest?  Which type of coke has the most effect on your heart?  Does the content of a can affect how it rolls?  Does exercise improve problem solving skills as you age?  Which is the best biscuit to dunk?  Can the material used change how a parachute falls?  Do you run faster swinging your arms or normally?  Are things which are bad for plants bad for us?  How much water is needed to make the wobbliest jelly?  Which colour gummy bear is the toughest? |
| **Year 5** | How much air does it take to pop a banana?  Does food make you faster?  Aerodynamics (of a Lego car)  What happens when you add different liquids to yeast and flour?  What is the best material to keep hot chocolate warm?  Which material blocks magnetic attraction the best?  Which ice cream melts the slowest?  Does the size of your ear affect how you hear?  How does the material affect how quickly the spinner falls?  How many elastic bands does it take to explode a melon? |
| **Year 6** | How much weight can a marshmallow structure take?  Which fruit has the strongest outer layer?  How does the distance from the light source effect the shadow?  Does pre-germination preparation effect germination success?  Does the 5 second rule work?  Which breed of dog can smell the best?  Who thinks more alike: friends, twins or siblings?  Which take away cup insulates heat best?  Which sense is more effective - taste or smell?  Which recipe makes the stretchiest slime? |