

## Science Over the Summer



Here is a list of *optional* activities for you to do with a science theme.

If you do any, please write about your experience or draw a picture and bring it back in September for bonus classcharts points!

(Some of the activities on the second page are for fun practicals you can do at home)

Have a great summer!,

Scissett Science Department

<b>Activity</b>	<b>Link</b>
<p><u>London Natural History Museum – Virtual Museum</u> Delve into the Museum from home with a virtual self-guided tour of the galleries, an interactive experience about Hope the blue whale and audio guides narrated by Sir David Attenborough.</p>	<p><a href="https://www.nhm.ac.uk/visit/virtual-museum.html">https://www.nhm.ac.uk/visit/virtual-museum.html</a></p>
<p><u>London Science Museum – Virtual Museum</u> Explore the science museum with a virtual tour on Google Streetview or enjoy a curated tour of the museum. You can also explore their 325,000 object in amazing detail!</p>	<p><a href="https://www.sciencemuseum.org.uk/virtual-tour-science-museum">https://www.sciencemuseum.org.uk/virtual-tour-science-museum</a></p>
<p><u>WWF Activities for pupils</u> Take inspiration and ideas from their hub of seasonal and fun creative activities that are designed to encourage pupils to get outside, get creative using recycled materials, and learn about nature and sustainability.</p>	<p><a href="https://www.wwf.org.uk/get-involved/schools/activities">https://www.wwf.org.uk/get-involved/schools/activities</a></p>
<p><u>Edinburgh Zoo – Animal information and live webcams</u> Find out about all the animals that live in Edinburgh Zoo and there are live webcams of the animals so you can see what they are up to!</p>	<p><a href="https://www.edinburghzoo.org.uk/animals-and-attractions/animals/">https://www.edinburghzoo.org.uk/animals-and-attractions/animals/</a></p>
<p><u>Virtual Planetarium and solar system discovery show</u> The Universe is a vast and intriguing place, and this show explores our own little corner of it: the Solar System. Starting from our home planet, the Earth, you'll travel through our celestial neighbourhood, visiting objects like planets, moons and asteroids, and ending with a fly-out to view our galaxy, the Milky Way.</p>	<p><a href="https://www.rmg.co.uk/whats-on/solar-system-discovery-virtual-planetarium-show">https://www.rmg.co.uk/whats-on/solar-system-discovery-virtual-planetarium-show</a></p> <p>Times you can book Thursday 23 July   12pm - 1pm, 2pm - 3pm, 3pm - 4pm Friday 24 July   11am - 12pm, 12pm - 1pm, 2pm - 3pm</p>
<p><u>Kew Gardens – Virtual tour into the glasshouses</u> Travel to the tropics, the desert and the mountains without leaving the house with their seasonal footage and a sneak peek at their glasshouses across Kew and Wakehurst.</p>	<p><a href="https://www.kew.org/about-us/virtual-kew-wakehurst">https://www.kew.org/about-us/virtual-kew-wakehurst</a></p>
<p><u>Google Expeditions – Virtual Reality Tours and Augmented Reality</u> Expeditions explore history, science, the arts, and the natural world. Whether you're roaming with dinosaurs or taking a look at Renaissance sculptures, there's something amazing to explore for every subject.</p>	<p><a href="https://edu.google.com/products/vr-ar/expeditions/?modal_active=none">https://edu.google.com/products/vr-ar/expeditions/?modal_active=none</a></p> <p>To experience VR cheaply you can order a product called "google cardboard" which lets you turn your smart phone into a VR headset with some self-assembly.</p>
<p><u>Dyson Challenge Cards</u> Can you skewer a balloon without popping it? Coat a nail in copper? What happens when you plug a clock into a potato? Dyson engineers have designed these challenges specifically for children. Ideal for home or in the</p>	<p><a href="https://www.jamesdysonfoundation.co.uk/resources/challenge-cards.html">https://www.jamesdysonfoundation.co.uk/resources/challenge-cards.html</a></p>

<b>Activity</b>	<b>Link</b>
classroom, they encourage inquisitive young minds to get excited about engineering.	
<u>Institute of Physics – Moon Adventure</u> What's it like to be an astronaut? Where did the Moon come from? What's the future of humans in space? Click to find out more!	<a href="https://beta.iop.org/moon?_ga=2.10362485.1926302531.1594071685-507043688.1594071685">https://beta.iop.org/moon?_ga=2.10362485.1926302531.1594071685-507043688.1594071685</a>
<u>Royal Institute – Experiments and Practicals</u> A series of short films making it fun, easy and cheap to do science experiments at home with your family.	<a href="https://www.rigb.org/families/experimental">https://www.rigb.org/families/experimental</a>
<u>STEM – Massive list of activities for all ages</u> A range of fun, hands-on activities for families to use at home, suitable for all ages from 4 to 16.	<a href="https://www.stem.org.uk/home-learning/family-activities">https://www.stem.org.uk/home-learning/family-activities</a>
<u>Discovering Antarctica</u> Take a journey through this site and begin discovering Antarctica for yourself. Each section features activities, images, video clips and fact sheets, to help you learn about this distant, frozen wilderness.	<a href="https://discoveringantarctica.org.uk/">https://discoveringantarctica.org.uk/</a>
<u>Scouts – The Great Indoors</u> While Scouts normally love the great outdoors, they've pulled together some inspired indoor activity ideas to keep you entertained while schools are closed due to coronavirus.	<a href="https://www.scouts.org.uk/the-great-indoors">https://www.scouts.org.uk/the-great-indoors</a>
<u>Lockdown Science</u> Here you will find the experiments you can do at home. All very low-tech. No fancy equipment. Just what's in the cupboard and the fridge, and some fun for kids.	<a href="https://www.lockdownscience.com/">https://www.lockdownscience.com/</a>
<u>Tynker – Learn to code</u> Tynker provides everything needed to learn computer programming in a fun way. Tynker offers self-paced online courses for children to learn coding at home.	<a href="https://www.tynker.com/dashboard/student/#/dashboard">https://www.tynker.com/dashboard/student/#/dashboard</a>
<u>TEDEd – Online learning videos</u> Allows students to search for lectures — recorded or animated — on subjects of interest or sign up for a daily email of lesson plans that span all subjects and age groups.	<a href="https://ed.ted.com/lessons?category=science-technology&amp;direction=desc&amp;sort=featured-position">https://ed.ted.com/lessons?category=science-technology&amp;direction=desc&amp;sort=featured-position</a>
<u>WildEarth – Live Safaris</u> WildEarth's safariLIVE is an award winning, expert hosted LIVE safari, broadcast directly from the African wilderness into your home.	<a href="https://wildearth.tv/safarilive/">https://wildearth.tv/safarilive/</a> Sunrise Safari: 5:30am-8:30am Sunset Safari: 2pm-5pm Every day of the week
<u>Create a Rube Goldberg Machine</u> A Rube Goldberg machine is any complex contraption that uses a chain reaction to perform a simple task. Think of it as dominoes with far more steps leading to doing something simple like turning a light on or silence an alarm. They involve a lot of set up but are incredibly satisfying to have work.  We would absolutely love to see if you create a Rube Goldberg machine – film it and send it in to school. This site has examples of famous Rube Goldberg videos from YouTube.	<a href="https://boyslife.org/hobbies-projects/projects/159359/how-to-make-a-rube-goldberg-machine/">https://boyslife.org/hobbies-projects/projects/159359/how-to-make-a-rube-goldberg-machine/</a>