

Iqra Primary School

Science Home learning resources for families - Summer 2020

(collated from various freely available sources)

| Science | Resources |
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| Useful websites | <ul style="list-style-type: none">● BBC Bitesize has lots of educational resources and videos on many topics<ul style="list-style-type: none">○ BBC Bitesize have just launched special lessons for homeschooling● BBC Teach Live lessons● Science Sparks (including loads of challenges and periodic table of experiments)● The Imagination Tree (craft and creative play ideas, including fab play dough recipe!)● Primary Science Teaching Trust (PSTT) resources for home learning● ReachOut Reporter – topical news stories● Topical Science Updates● Great Science Share – a community of science sharing for children● Science Museum activities to do● The Royal Institution activities● Maths learning resources for home from White Rose |
| Activities to do at home... | <ul style="list-style-type: none">● British Science Association CREST awards (Stars for 5-7, Superstars for 7-11)● Explorify – Wellcome Trust online activities to make you think! (Dr Jo is an Explorify Champion so just ask if you have any questions)● Great Bug Hunt● RSPB Bird watch (has closed but you can still ID birds!)● Nature Detectives – special school closure activities from The Woodland Trust● Kew Gardens Learning at home resources |

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| | <ul style="list-style-type: none"> ● RHS Gardening activities ● Cambridge University Botanic Gardens downloadable resources for families ● Wildlife Trust including the #30DaysWild later in the year ● Practical Action Schools – investigations to get your teeth into (older children) ● National trust 50 Things to do before you're 11 3/4 ● The Scouts The Great Indoors activities ● Wallace And Gromit Cracking Ideas – have a go at inventing ● Starters for STEM 10 minute activities from STEM Learning ● NASA kids club ● ExpeRImental from The Royal Institution ● Train like an Astronaut – PE and science activities ● Institute of Physics (IOP) Marvin and Milo STEM cartoon activities ● Have a go at coding ● Experiments At Home (NZ science kids site) ● The Met Office DIY activities and experiments ● Lockdown Learning from Eat Farm Now ● Science and Engineering challenge cards from Dyson ● Online drawing course from very basic up (observational drawing also important in science!) ● Talk for Writing have created brilliant Talk for Writing Home-school booklets |
| Go on virtual tours... | <ul style="list-style-type: none"> ● Virtual museum tours list ● more museum tours, collated by the fabulous Family Days Tried and Tested – follow them for loads of creative ideas for children ● Glasgow Science Centre are doing a daily post at 10am daily #gscathome ● Follow the hashtags #MuseumFromHome and #ScienceFromHome on twitter as there are oodles of posts going up with activities and exhibits ● Global Science Show on 27th March from 9am GMT on twitter with multiple scientists posting short videos in succession starting in Sydney and including UK, America, EU, India and |

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| | <p>Australia #SocialDistanceLearning #ScienceFromHome #SciComm follow this link to the tweet thread from 27th March and then follow @GlobalSciShow for another virtual science show on 24th April!</p> <ul style="list-style-type: none">● Skype A Scientist● #FaceTimeA Farmer #FarmerTime● The University of Cambridge online Astronomy● Live streams from zoos |
| TV programmes - either on Freeview, watch again or YouTube | <ul style="list-style-type: none">● David Attenborough documentaries – go back to the beginning for classic and nostalgic natural history programmes● Operation Ouch!● NumberBlocks● National Geographic Kids● How It's Made● The Royal Institution Christmas Lectures● Educational YouTube channels (compiled by Paul Tyler)● Yoga and mindfulness from Cosmic Kids on YouTube● The Kids should See This – smart videos for curious minds● TedED |

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| Daily activities to follow... | <ul style="list-style-type: none"> • Joe Wicks PE day Mon – Fri at 9am follow hashtag #PEwithJoe • Writing (science needs good communication too!) at 9.45 am daily #TheWriteStuff • Glasgow Science Centre are doing a daily post at 10am daily #gscathome • Let's Go Live with @maddiemoat and @gregfoot daily at 11am #LetsGoLive • Dr Chips Daily Science and Engineering lessons on YouTube • Taskmaster challenges Mon, Wed, Fri at 9am follow hashtag #HomeTasking or follow @taskmaster on twitter |
| Magazines and other things to buy... | <ul style="list-style-type: none"> • Whizz Pop Bang! • The Week Science and Nature • How it Works (older children) • The Curiosity Box – curriculum linked science and engineering kits • Plantlet Culture – buy test tubes to grow seeds • The Amazing cross curricular Aquila magazine, and now free online access to their learning resources |
| Other resources and activities... | <ul style="list-style-type: none"> • Association for Science Education (ASE) list of resources • ASE community resource packs • Wow Science list of primary science activities • Cambridgeshire's Learn Together home learning resources • 18 Crafts for children including make a cardboard dome • Engineering ideas for children (credit Lindsey Nelson) • Chatterpack list of resources • Home Discussion Questions from That Science Lady |

- [100 Ways To Play](#) from Boston Children's Museum
- Great Science Share [Padlet](#) resources list
- Carole Kenrick's [list](#) of resources for science at home
- University of Manchester's SEERIH [list](#) of resources
- Lancashire [Science Festival](#) online experiments
- Glasgow Science Festival [activity pack](#)
- NorwichScience Festival list of [STEMM activities for home](#)
- Council for Learning Outside The Classroom [list of activities](#)
- Photography challenge (@paulagarrieson):

30 day Photography Challenge

A good photographer takes several photos of the same thing then chooses their favourite one to keep or share.

1. Snails Eye View
2. Possum's Eye View
3. Giant's Eye View
4. Eye Level View
5. Something that I love
6. My happy place
7. My favourite colour
8. Favourite time of the day
9. Nature indoors
10. Beautiful light
11. Something delicious
12. Someone that I love
13. In my room
14. Something with patterns
15. Something close up
16. What I can see out my window
17. What makes me smile
18. Something I have made
19. Something funny
20. Pieces of something
21. Something blue
22. Something big
23. Fork and Spoon
24. Water
25. Texture
26. Playtime
27. Together
28. Broken
29. Eyes
30. Food

Tips when using the camera on iPad:

1. Remember to tuck in your 'chicken wings' (elbows), this will help keep the iPad still.
2. Remember you can change the brightness of your photo by tapping the screen and scrolling the little yellow sun up or down.
3. Remember you can zoom in on your subject by sliding 2 fingers in and out across your screen.



Snail's Eye View

Hold the camera **low** to look **along an object**.

Imagine you were a snail slithering along the ground.

Possum's Eye View

Hold the camera **low** and against an object **looking upwards**. This can make the object look huge.

Imagine you were a possum looking up a tree.

Giant's Eye View

Hold the camera **above** the object **looking down**. This makes objects look small or weak.

Imagine you were a towering giant looking down at the ground.

Eye Level View

Hold the camera straight at the **same level as your eyes**.

Take the photo as you see it from your level. Be careful not to tilt the camera.

Free things...

- Mary Anning Fossil hunter [e-book](#) (limited time only)
- Neil Gaiman [free stuff](#) for children

- [Principles of design](#) free downloads for children of all ages
- There are lots of educational companies offering free resources during the coronavirus school shutdown, here's a [list](#)
- TTS (educational supplies) are offering these free downloadable activity [booklets](#)
- Carol Vorderman's [The Maths Factor](#) is now free for parents during school closures
- 5 day [First Aid](#) challenge