


























Science Super Curriculum KS3


















 Why don't penguins feet freeze? New Scientist There are lots of books in this series.	 Women in Science: 50 Fearless Pioneers Who Changed the World, Rachel Ignotofsky.	 100 Things to know about Space, Alex Frith, Alice James and Jerome Martin.
 Incredible Medicine: Dr Weston's Casebook. Extraordinary cases that are bringing new discoveries about the human body. https://goo.gl/V82X5t	 Cool Science Experiments on YouTube.	 Crash course kids videos https://www.youtube.com/user/crashcoursekids
 Create a song to remember the names of the first 20 elements.	 Create a Steve Spanglerstyle video of a science experiment you have done at home. https://www.stevespanglerscience.com/	 Make your own Quizizz on a topic of your choice and ask your Science teacher to share it with the class.
 Create your own worm world or ant farm.	 Download an app on the stars and constellations then go outside at night to identify them.	 Write a news report about what you think is the most important scientific discovery.
 Natural History Museum, London.	 Science Museum, London.	 London Zoo.









	Reading Task		Creative Task
	Research Task		Writing Task
	Watching Task		Student – Led Task
	Listening Task		Trip or Visit



Science Super Curriculum KS4


















 Why don't penguins feet freeze? New Scientist There are lots of books in this series.	 Perfect People , Peter James.	 Bad Science: Quacks, Hacks and Big Pharma Flacks , Ben Goldacre.
 Incredible Medicine: Dr Weston's Casebook. Extraordinary cases that are bringing new discoveries about the human body. https://goo.gl/V82X5t	 Inside Nature's Giants video series https://www.youtube.com/watch?v=PFLSLyzGYK8	 Crash course videos (Biology, Chemistry & Physics playlists) https://www.youtube.com/user/crashcourse/playlists?shelf_id=0&view=1&sort=dd
 Make a genetic sequence bracelet (your genome) http://www.yourgenome.org/activities/sequence-bracelets	 Create your own quiz on Educake .	 Watch a My GCSE Science video. https://www.mygcscscience.com
 Saturday Studio opportunities at the Wellcome collection . Try out creative activities inspired by Wellcome Collection (14-19).	 Get involved with RAWMINDS A Wellcome Collection youth engagement initiative for teenagers 14-19 to experiment with art and science, get creative and learn new skills.	 Write a news report about what you think is the most important scientific discovery.
 Natural History Museum , London.	 Science Museum , London.	 London Zoo .









	Reading Task		Creative Task
	Research Task		Writing Task
	Watching Task		Student – Led Task
	Listening Task		Trip or Visit



Biology Super Curriculum KS5


















 The immortal life of Henrietta Lacks by Rebecca Skloot. About HeLa cells and the ethics behind it.	 The ancestors' tale by Richard Dawkins. You don't need to read it cover to cover, just dip into the chapters that interest you.	 The Tale of the Dueling Neurosurgeons , by Sam Kean.
 Secret Universe, The Hidden Life of a Cell https://vimeo.com/144634673	 Growing New Organs http://www.ted.com/talks/anthony_atala_growing_organs_engineering_tissue?language=en	 Crash course videos https://www.youtube.com/playlist?list=PL3EED4C1D684D3ADF
 Get involved with Saturday Studio opportunities at the Wellcome collection . Try out creative activities inspired by Wellcome Collection (14-19).	 Create a twitter account , follow 10 relevant Biology organisations e.g. Royal Society of Biology, New Scientist, Nature, BBC Science News ect.	 Create your own brine shrimp ecosystem. http://www.seamonkeys.com/
 Download and listen to podcast ' The Infinite Monkey Cage '.	 Incredible Medicine: Dr Weston's Casebook . Extraordinary cases that are bringing new discoveries about the human body.	 Oxford University Museum of Natural History .
 The Wellcome Collection permanent exhibitions Medicine now and Medicine Man.	 Kew Gardens London.	 Science Museum , London.









	Reading Task		Creative Task
	Research Task		Writing Task
	Watching Task		Student – Led Task
	Listening Task		Trip or Visit



Chemistry Super Curriculum KS5


















 Periodic Tales, the Curious Lives of the Elements, Hugh Aldersey Williams.	 The Science of Everyday Life: Why Teapots Dribble, Toast Burns and Light Bulbs Shine, Marty Jopson.	 The Disappearing Spoon...and other true tales from the Periodic Table, Sam Kean.
 Fantastic Four movie and then watch the clip where the science is explained: http://nerdist.com/michio-kakuexplains-the-real-sciencebehind-fantastic-four/	 10 weird and wonderful chemical reactions: https://www.youtube.com/watch?v=0Bt6RPP2ANl	 Crash course videos. https://www.youtube.com/playlist?list=PL8dPuuaLjXtPHzzYuWy6fYEaX9mQQ8oGrr
 Learn to sing the Elements Song by Tom Lehrer.	 Create a twitter account, follow 10 relevant Chemistry organisations e.g Royal Society of Chemistry, New scientist, BBC Science news etc.	 Make a 'silver' egg http://www.housingaforest.com/silver-egg-experiment/
 To 5 podcasts of different elements from the periodic table. http://www.rsc.org/periodictable/Podcast	 To 1 podcast from the Radiolab. http://www.radiolab.org/	 To 3 Material World podcasts. http://www.bbc.co.uk/programmes
 Diamond Synchrotron in Oxford.	 Grow your own crystal e.g. salt. http://www.sciencekids.co.nz/projects/saltcrystals.html	 Research an experiment that is safe to do with kitchen chemicals and carry it out.









	Reading Task		Creative Task
	Research Task		Writing Task
	Watching Task		Student – Led Task
	Listening Task		Trip or Visit



Physics Super Curriculum KS5



 Surely You're Joking Mr Feynman: Adventures of a Curious Character , Ralph Leighton.	 A Short History of Nearly Everything , Bill Bryson.	 The Physics of Super Heroes , James Kakalios.
 Minute Physics. https://www.youtube.com/user/minutephysics	 NASA TV (Online coverage of launches, missions and testing's).	 Crash course videos. https://www.youtube.com/playlist?list=PL8dPuuaLjXtN0ge7yDk_UAOldZJdhwkoV
 Learn to sing the Elements Song by Tom Lehre.	 Create a twitter account , follow 10 relevant Physic organisations or Physicists.	 Make your own fruit cell at home. https://explorable.com/fruitbattery-experiment
 Download and listen to the ' Physics World ' podcasts (new podcast released every 48 days).	 Join the Institute of Physics as a student member.	 Attend FREE Physics lectures at the Institute of Physics in London (see their website for regular updates of what's on).
 Science Museum in London.	 The Royal Observatory in Greenwich.	 The Royal Institution in London.

	Reading Task		Creative Task
	Research Task		Writing Task
	Watching Task		Student – Led Task
	Listening Task		Trip or Visit