



Science

The Super Curriculum

The Super Curriculum

Super curricular activities are those that take your regular curriculum further. They take the subjects you study in the classroom beyond that which your teacher has taught you or what you've done for home learning. For example, you may go into more depth on something you picked up in the classroom or learn about a new topic altogether.

These activities are normally in the form of extra reading, but they can take many other forms, like watching videos online, downloading podcasts, attending lectures, visiting museums or entering academic competitions.
















Engaging in super curricular activities will help you develop a love for your favourite subject or subjects. In this booklet, there are a range of activities, suggested by your teachers. They are by no means exhaustive lists but should get you started.









We encourage you to share ideas and opportunities you come across with your teachers so that, over time, the recommended activities in this booklet can grow.

In the future, employers or universities will be interested to hear about what super curricular activities you have engaged in; they will be interested in what you have learnt and impressed by your efforts.

Super Curriculum – Year 7, 8 & 9
















Subject: Science









SC1		SC3		SC5	
	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 Ignatofsky		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 Spangler- style video of a science experiment you have done at home https://www.stevespanglerscience.com/		Make your own Quiz on a Science topic of your choice (using Blooket or Kahoot) 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 or Whipsnade Zoo

	Reading task		Writing task
	Listening task		Watching task
	Research task		Trip or visit
	Creative task		Student led task














Super Curriculum – Year 10 & 11









Subject: Science

SC1		SC3		SC5	
	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/playlist?list=PLq7FmR1a6UmhO2BZcp8F0lzZGx0fiCn5D		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) https://www.yourgenome.org		Create your own Science topic quiz on Kahoot or Bloocket.		Create a presentation on any area of science you have studied this year and show it to your teacher/class
	Saturday Studio opportunities at the Wellcome collection. Try out creative activities inspired by Wellcome Collection (14-19) https://wellcomecollection.org/event-series/saturday-studio		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 or Whipsnade Zoo

	Reading task		Writing task
	Listening task		Watching task
	Research task		Trip or visit
	Creative task		Student led task

Super Curriculum – Year 10 & 11
Subject: Science (An even deeper dive into Science!)

SC1		SC3		SC5	
	Interested in Medicine? Read: Kay's Anatomy: A Complete (and Completely Disgusting) Guide to the Human Body and write about what you found interesting in the book and what you think it should have included more information about.	 	Find and visit a chalk stream in Hertfordshire. Write about something scientifically interesting about the species living in the area.		Make a model to help other people understand something you learnt in science recently. How exciting and interesting can you make it? Hints: colourful cakes can make really good models, you can build with Lego bricks or other materials, and you have to be able to explain what your model represents!
 	Science is all about sharing knowledge. You can help a Year 7,8 or 9 understand science. Either buddy up with someone and help them with their science homework or something they find hard, or make a little poster to help a Y7 learn their science.	 	Read one of these books and then write about which science ideas in the book you found interesting, confusing, or were new to you. “George’s Secret Key to the Universe” by Lucy & Stephen Hawking “A Wrinkle in Time” by Madeleine L’Engle	 	A lot of books and films are about time travel. Research books and/or films about time travel and create a poster (at least A3) about what you have learnt, what you found interesting, and compare how the different fiction handles the science and consequences. Don’t forget to include if you think time travel is possible and why, or why not!
	Year 7s and science teachers love science clubs, can you design or make a badge or pin-badge they can wear to show everyone they go!		How Biodegradable are ‘Biodegradable’ Plastics? Can you design an experiment to see how biodegradable plastics are?		Write a newspaper style article with some pictures based on your own original ideas and research on ‘Which Fuel Is the Future for Transport?’, or are ‘EV cars really better for the environment?’

	Reading task		Writing task
	Listening task		Watching task
	Research task		Trip or visit
	Creative task		Student led task