



Engage...Explore...Excel...



BIOLOGY

	Starting (KS3)	Engaging (KS4)	Expanding (KS5)
Read	<p>Elephants on Acid by Alex Boese. It describes some of the weird and wonderful experiments completed in history.</p> <p>What If?: Serious Scientific Answer to Absurd Hypothetical Questions by Randall Munroe. Investigating scientific solutions to situations such as 'From what height would you need to drop a steak for it to be cooked before it hit the ground?'</p> <p>The Private Life of Plants: A Natural History of Plant Behaviour by David Attenborough. Accompanying a David Attenborough series on BBC Television, and with the aid of time-lapse photography, this book reveals hidden events and phenomena of plant-life throughout the world.</p> <p>Amazing Animal Journeys: Fascinating facts about the migration of species across our planet by Chris Packham and beautifully illustrated by Jason Cockcroft. Travel around the world to meet some of the masters of migration as they take you with them on some incredible journeys.</p>	<p>Written In Bone: hidden stories in what we leave behind by Dr Sue Black. A renowned anthropologist takes us on a journey through the depth of our skeleton and the secrets locked within it.</p> <p>Womb: The Inside Story of Where We All Began by Leah Hazard. An insightful book on the organ that gave us life.</p> <p>This is Going to Hurt: Secret Diaries of a Junior Doctor by Adam Kay. A must read for any aspiring doctor, describing the highs and lows of entering the profession. Written with great wit and emotion.</p> <p>Stiff: The Curious Lives of Human Cadavers by Mary Roach. Lifting the lid on what happens to our bodies after death and the exciting ways we use cadavers for Science.</p> <p>Testosterone Rex: Unmaking the Myths of Our Gendered Minds by Cordelia Fine. 'Every man and woman should read this book on gender bias ... an important, yet wickedly witty, book.'- Judges of the Royal Society Insight Investment Science Book prize of which it was the 2017 winner.</p> <p>Parasite Rex by Carl Zimmer. A book inspired by the power, danger and beauty of parasites. He is the only author after whom a species of tapeworm has been named.</p>	<p>The Vagina Bible: The Vulva and the Vagina: Separating the Myth from the Medicine by Dr Jen Gunter. A guidebook detailing the anatomy of the vagina which challenges common myths perpetrated by a wellness industry who often have no science to back up their claims.</p> <p>Unnatural Causes by Dr Richard Shepherd. Unnatural Causes is an unputdownable record of an extraordinary life, a unique insight into a remarkable profession, and above all a powerful and reassuring testament to lives cut short.</p> <p>Behave: The Biology of Humans at Our Best and Worst by Robert Sapolsky. Sapolsky - a neuroscientist and primatologist--uncovers the hidden story of our actions. Undertaking some of our thorniest questions relating to tribalism and xenophobia, hierarchy and competition, and war and peace.</p> <p>How the Pill changes everything: Your brain on birth control by Sarah Hill. This book is not anti-pill at all, it is pro-informed choices, and Dr Sarah Hill has provided a service to all birth control takers by writing this book so we can all make an informed decision.</p> <p>Rewilding by Isabella Tree. The story of the Knepp Experiment, a pioneering rewilding project in West Sussex</p>

<p>Watch/Listen</p>	<p>BBC's Springwatch, Autumnwatch and Winterwatch. Journey through the seasons of the UK. Real time cameras catch everyday wildlife in ways not normally seen, charting their journey from birth, mating, maturing and eventually death. https://www.bbc.co.uk/programmes/b007qgm3</p> <p>BBC's The secret genius of modern life. Hannah Fry uncovers the secrets behind the miraculous technologies of the modern world, revealing the mind-blowing stories behind their invention. https://www.bbc.co.uk/programmes/m001f1tg</p> <p>BBC's Earth by Chris Packham. Encompasses all aspects of Science, showing how they all come together to form our planet. https://www.bbc.co.uk/programmes/p0fpwhhm</p>	<p>Cognito GCSE Biology 9-1 videos. Key concepts are packed into informative videos which are free to watch. https://www.youtube.com/playlist?list=PLidqqIGKox7X5UFT-expKluR-i-BN3Q1g</p> <p>Freesciencelessons. The clue is in the name. Videos provided by an ex-teacher so the content is top-notch, albeit a little less visually interesting compared to Cognito. https://www.youtube.com/@Freesciencelessons</p> <p>BBC The life scientific. A BBC Radio 4 programme where Professor Jim Al-Khalili talks to leading scientists about their life and work including scientists who didn't necessarily achieve as expected at school. https://www.bbc.co.uk/programmes/b015sqc7</p>	<p>A lecture series on Human Behaviour by Robert Sapolsky based on his bestselling book as detailed above. https://www.youtube.com/playlist?list=PL848F2368C90DDC3D</p> <p>Tech and Science Daily Podcast by the Evening Standard. Daily bulletins reporting the latest news from the world of science and technology, from the Evening Standard. https://play.acast.com/s/tech-science-daily</p> <p>Any podcast mentioned by the BBC Earth website. There is a large variety to choose from. https://www.bbcearth.com/news/the-best-nature-science-and-technology-podcasts&ocid=twert</p>
<p>Do</p>	<p>Engage with school competitions in Science. Eg. Model Cell & Planet Travel Brochure.</p> <p>Download the 'PlantNET' app on your phone. It aids in identifying different species and get involved with their monthly challenges.</p> <p>Download the Educake app on your phone. Utilise spare time with quick quizzes as opposed to scrolling away mindlessly.</p> <p>Watch Wildlife Cams – Follow a variety of animals on their journeys. https://www.wildlifetrusts.org/webcams</p> <p>Attend Yr7-8 KS3 Workshop/Year 9 Specific workshop afterschool to get additional help where needed.</p>	<p>Download the 'PlantNET' app on your phone. It aids in identifying different species and get involved with their monthly challenges.</p> <p>Download the 'Merlin Bird ID by Cornell Labs' app. On walks you can record birdsong and identify them. You can see how many you have heard through its tracking data.</p> <p>Join nature groups on nature walks at local nature reserves. The Kent wildlife has great ideas as well as some local safaris. https://www.kentwildlifetrust.org.uk/</p> <p>Take part in a Citizen Science Project. Citizen science projects are a great way to learn more about our wonderful wildlife, at the same time as helping to protect it. https://www.wildlifetrusts.org/citizen-science</p> <p>Attend GCSE Workshop afterschool for help where needed.</p>	<p>Join in with the University of Kent outreach programmes as well as summer schools. Previous students have thoroughly enjoyed the work experience week offered. https://www.kent.ac.uk/schools-and-colleges/subject-specific-activities#nats</p> <p>Attend University Open Days. Interact with students taking Bioscience degrees, to find out if they are the right choice for you.</p> <p>Volunteer in your summertime. If you are over 18, the Kent wildlife trust have a variety of opportunities. https://www.kentwildlifetrust.org.uk/volunteering-opportunities</p> <p>Attend A-level Workshop afterschool for help where needed.</p>

Revision	<p>BBC Bitesize – an online tool full of great information, videos and quick quizzes. https://www.bbc.co.uk/bitesize/subjects/z4882hv</p> <p>GCSE Pod is a school bought programme which allows students to access videos and set questions on topics specific to their exam board. An invaluable resource as each short video and question bank can be completed on phone whilst on the bus! Every student at SRMS is given access. Don't be worried by the GCSE title, lots of content is taught at KS3 level too, especially for Year 9 topics! https://www.gcsepod.com/</p> <p>Cognito – More than just a YouTube channel it provides access to exam style questions and past papers from SATS. https://cognitoedu.org/resources/ks3/science-</p> <p>Year 9 - OCR Past Paper finder – an online tool supplied by your examining body which is OCR Gateway https://www.ocr.org.uk/qualifications/past-paper-finder/</p> <p>Kerboodle- the online textbook. Every student should have a login. It provides a digital copy to their online textbook as well as animations and quizzes. I particularly like the 'On your marks' style resources. Log in available via the IT team if unknown and institutional code is DRU7. https://www.kerboodle.com/users/login</p> <p>Attend Yr7-8 Workshop afterschool to get additional help where needed.</p> <p>Attend Yr9 Workshop to get help where needed.</p>	<p>GCSE Pod is a school bought programme which allows students to access videos and set questions on topics specific to their exam board. An invaluable resource as each short video and question bank can be completed on phone whilst on the bus! Every student at SRMS is given access. https://www.gcsepod.com/</p> <p>Kerboodle- the online textbook. Every student should have a login. It provides a digital copy to their online textbook as well as animations and quizzes. I particularly like the 'On your marks' style resources. Log in available via the IT team if unknown and institutional code is DRU7. https://www.kerboodle.com/users/login</p> <p>Educake – Its not just homework. You can set yourself quizzes to do, based on topics you struggle with. I would recommend a quick quiz on a topic you struggle with, repeating it until you get 100% to aid memory and recall. Then wait 15 minutes before tackling some past paper questions on the same area. https://my.educake.co.uk/student-login</p> <p>Cognito – More than just a YouTube channel it provides access to exam style questions and past papers, organised by both topic and by paper. https://cognitoedu.org/examqs/b2-gcse-ocra-h-t</p> <p>OCR Past Paper finder – an online tool supplied by your examining body which is OCR Gateway https://www.ocr.org.uk/qualifications/past-paper-finder/</p> <p>Attend GCSE Workshop afterschool for help where needed.</p>	<p>Physics and Maths Tutor. Do not be fooled by the name, it does Biology too. It gives you access to past paper questions topic by topic as well as summary notes of key concepts. https://www.physicsandmathstutor.com/biology-revision/a-level-ocr-a/</p> <p>Save my exams. Great resource for note-taking, topic questions and past papers. https://www.savemyexams.com/a-level/biology/ocr/17/</p> <p>Kerboodle- the online textbook. Every student should have a login. It provides a digital copy to their online textbook as well as animations and quizzes. I particularly like the 'On your marks' style resources. Log in available via the IT team if unknown and institutional code is DRU7. https://www.kerboodle.com/users/login</p> <p>OCR Past Paper finder – an online tool supplied by your examining body which is OCR for A-Level. https://www.ocr.org.uk/qualifications/past-paper-finder/</p> <p>Attend A-level Workshop afterschool for help where needed.</p>
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