Dear students,

Firstly, happy Summer holidays! Well done on making it through over a term of school in lockdown. So many of you have shown real resilience and independence during this time as you have proved that you are able to stick with situations which are difficult, and motivate and direct yourself well while at home. In addition, we have seen so many great examples of creativity in your approaches to tasks set; great collaboration via Teams video lessons; and all of this proves to us how truly ambitious you are to ensure that you succeed in the face of adversity…and Coronavirus!

We wholeheartedly expect you to take some time off over the summer holidays to relax and enjoy time with your friends and families. Some of you might be fortunate enough to be going on a camping trip or off for a few days to stay in a holiday cottage. Whatever you are doing, make sure that you make time for yourself and do as many of the things you love as possible.

While we are not expecting any student to complete any additional work over the summer holidays, we are aware that some of you might be worrying that the time away from school has left gaps in your knowledge, and that others just have a real love of learning and will be seeking out opportunities to learn even more! With this in mind, we have collected together a series of links to really good online resources that you can dip in and out of as you please over the summer. In addition to the ones you see on the next page, there is a whole catalogue of online lessons divided by year group and subject which has been sent as an excel attachment with this letter.

During this time, looking after your mental health and wellbeing couldn’t be more important. We have included some great web pages at the bottom of the table to support good mental health and wellbeing, and help you to learn a little bit more about what it looks and feels like. These resources range from those written by highly qualified experts in the field, to resources created for teenagers by teenagers. Hopefully, there is something there to suit everyone.

Finally, if there are any activities you didn’t get round to trying from the Easter Holidays ideas I sent out, now’s the time to give them a go! I have attached a copy of the booklet with this letter incase you can’t find yours.

While this last term has been one we hope is never repeated, your ability to cope with uncertainty and adapt to the ever-changing world around you is something that we are enormously proud of. As you may already know, I won’t be here to welcome you back in September as I will be on maternity leave. However, I will be keeping in touch until I return, and look forward to hearing about all of your successes.

Have a fantastic summer,

Mrs Morgan

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| **English** | **Maths** |
| <https://stories.audible.com/start-listen> *All Audible stories are available for free.*<https://www.pobble365.com/> *Here a daily image is published to be used to stimulate creative writing. Avid writers, look no further for inspiraiton!* <https://www.englishandmedia.co.uk/publications/free-key-stage-3-and-home-learning-pack> *Free resources from the English and Media Centre focussing on poetry, literary short stories and other extracts from literature with accompanying activities. There are also writing activities too.* <https://www.englishmastery.org/our-response-to-coronavirus-covid-19/> *Free resources on Writing Mastery and Poetry* <https://literacytrust.org.uk/family-zone/> *There are loads of resources and activities available here for students of all ages.*  | <https://nrich.maths.org/> *A range of resources and activities for 11-18 year olds. There’s a great section with problem solving activities to work through together as a family too:* <https://nrich.maths.org/solvingtogether><https://www.topmarks.co.uk/maths-games> *Interactive Maths games for students.* <https://whiterosemaths.com/homelearning/> *Updated regularly – a range of lessons which include worksheets and video lessons to guide students through activities.* <https://www.mathsgenie.co.uk/gcse.html> *This website contains great GCSE revision videos and access to exam-style questions too.* <https://www.bowlandmaths.org.uk/assessment/> *There are some great Maths problems here which will get you really scratching your heads.* <https://mathigon.org/activities> *There are some great games and activities here. You could even learn a little about the historical timeline of important Mathematicians.* <https://mathskitchen.com/topics> *A range of maths lessons and activities – rank ordered in terms of difficulty from GCSE Grade 1 – Grade 8.*  |
| **Science Learning Activities** |
| London Natural History Museum – Virtual MuseumDelve 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. <https://www.nhm.ac.uk/visit/virtual-museum.html> |
| London Science Museum – Virtual MuseumExplore 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! <https://www.sciencemuseum.org.uk/virtual-tour-science-museum> |
| Washington D.C Natural History Museum – Virtual toursThe Smithsonian National Museum of Natural History virtual tours allow visitors to take self-guided, room-by-room tours of select exhibits and areas within the museum from their desktop or mobile device <https://naturalhistory.si.edu/visit/virtual-tour> |
| Washington D.C Natural History Museum – Summer ExplorationsJoin a free virtual summer program series that allows you to explore the world of natural history science in a fun and interactive way! Each week they will explore a different natural science-based theme and provide a suite of daily live webinars, videos, activities, and projects. <https://naturalhistory.si.edu/education/natural-history-summer-explorations> |
| WWF Activities for pupilsTake 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. <https://www.wwf.org.uk/get-involved/schools/activities> |
| CERN – Virtual Visits‘Visit’ the site of the Large Hadron Collider – the world’s largest and most powerful particle accelerator. A variety of interactive activities including virtual reality videos and tours of the site. <https://visit.cern/tours/virtual-visits> <https://visit.cern/discover-cern-online> |
| Chester Zoo – Virtual ZooTake part in one of many virtual tours of Chester Zoo which broadcasted the zoo whilst in lockdown. <https://www.chesterzoo.org/virtual-zoo-2/> |
| Edinburgh Zoo – Animal information and live webcamsFind 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. <https://www.edinburghzoo.org.uk/animals-and-attractions/animals/> |
| London Zoo – Virtual Zoo and Live TalksVisit the animals, and their hardworking keepers, in real time. Gain an unedited snapshot of what goes on day to day – the cleaning, the caring, the surprises and the affection. Enjoy the animals in all their unpredictable, quirky ways and check in with the teams still there, on site, looking after their animals.<https://www.zsl.org/zsl-london-zoo/virtual-london-zoo> <https://www.zsl.org/zsl-london-zoo/whats-on/live-from-zsl-london-zoo> |
| Virtual Planetarium and solar system discovery showThe 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. <https://www.rmg.co.uk/whats-on/solar-system-discovery-virtual-planetarium-show>  |
| Kew Gardens – Virtual tour into the glasshousesTravel 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. <https://www.kew.org/about-us/virtual-kew-wakehurst> |
| Google Expeditions – Virtual Reality Tours and Augmented Reality 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. <https://edu.google.com/products/vr-ar/expeditions/?modal_active=none>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.  |
| NASA – Citizen Science Projects & Other ActivitiesNASA’s citizen science projects are collaborations between scientists and interested members of the public. Through these collaborations, volunteers (known as citizen scientists) have helped make thousands of important scientific discoveries. <https://science.nasa.gov/citizenscience> <https://www.nasa.gov/stem/forstudents/5-8/index.html> <https://spaceplace.nasa.gov/> |
| Dyson Challenge CardsCan 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 classroom, they encourage inquisitive young minds to get excited about engineering.<https://www.jamesdysonfoundation.co.uk/resources/challenge-cards.html> |
| Learn.Genetics – An introduction to genetics and biologyExplore a range of resources all aimed at explains the basics of biology and genetics. Activities to complete as well as learning if you want to learn something new. <https://learn.genetics.utah.edu/> |
| Institute of Physics – Moon AdventureWhat'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!<https://beta.iop.org/moon?_ga=2.10362485.1926302531.1594071685-507043688.1594071685> |
| Royal Institute – Experiments and PracticalsA series of short films making it fun, easy and cheap to do science experiments at home with your family. <https://www.rigb.org/families/experimental> |
| STEM – Massive list of activities for all agesA range of fun, hands-on activities for families to use at home, suitable for all ages from 4 to 16.  <https://www.stem.org.uk/home-learning/family-activities> |
| Discovering AntarcticaTake 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. <https://discoveringantarctica.org.uk/> |
| Scouts – The Great IndoorsWhile 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. <https://www.scouts.org.uk/the-great-indoors> |
| British Science Week 2020 PackThe theme for the British Science Week 2020 activity packs and poster competition was ‘Our diverse planet.’ Even though the week is over, the packs contain lots of activities on this theme, with anything from biological diversity and social diversity, to the diversity of knowledge and STEM careers.<https://www.britishscienceweek.org/app/uploads/2020/01/BSA_BSW_secondary_1119v13.pdf> |
| Lockdown ScienceHere 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. <https://www.lockdownscience.com/> |
| Tynker – Learn to codeTynker provides everything needed to learn computer programming in a fun way. Tynker offers self-paced online courses for children to learn coding at home. <https://www.tynker.com/dashboard/student/#/dashboard> |
| TEDEd – Online learning videosAllows 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.<https://ed.ted.com/lessons?category=science-technology&direction=desc&sort=featured-position> |
| WildEarth – Live SafarisWildEarth’s safariLIVE is an award winning, expert hosted LIVE safari, broadcast directly from the African wilderness into your home. <https://wildearth.tv/safarilive/> |
| Monterey Bay Aquarium – Live CamsBe delighted by the antics of the sea otters or mellow out to the hypnotic drifting of jellies. With ten live cams to choose from, you can experience the wonder of the ocean no matter where you are. There are live narrated feedings every day. <https://www.montereybayaquarium.org/animals/live-cams> |
| Create a Rube Goldberg MachineA 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. <https://boyslife.org/hobbies-projects/projects/159359/how-to-make-a-rube-goldberg-machine/> |
| **Other Great Learning Resources Available:**<https://www.century.tech/explore-century/parents/#pricing-panel>*Free online courses in English, Maths and Science.* <https://www.clickview.co.uk/free/> *A range of educational videos and activities across a range of different subjects. These are great if you have a particular area of interest and are great quality*.[www.tinkercad.com](http://www.tinkercad.com) *This is a great website which allows you to design in 3D. Ms Woods would love to see any designs you come up with. You can send them off to print from the site, or save them and print them at school once we are back in September.* <https://www.youtube.com/results?search_query=OBHS+PE+lesson> *This link will take you to the OBHS PE videos uploaded throughout lockdown – a great way to stay active.* <https://www.youtube.com/playlist?list=PLYGRaluWWTojV3An2WEgsQ4qGFy_91jDL> *This is PE YouTube channel – includes videos linked to the PE National Curriculum and Skills.* |
| **Supporting Good Mental Health and Wellbeing:** <https://www.childrenssociety.org.uk/coronavirus-information-and-support> *A website with links to further advice pages on anxiety, depression, loneliness, OCD, phobias, self-care and resilience.* <https://mindedforfamilies.org.uk/young-people> *A good website for parents and carers looking to support their child’s mental health.* <https://riseabove.org.uk/topic/my-mind/> *Resources designed to help to boost self-confidence and reduce anxiety. Made by young people for young people.* <https://education.stem4.org.uk/> *Head Ed Light is an online educational resource for students to learn about mental health topics independently. Head Ed Light contains 4 modules on anxiety, depression, resilience and self-harm.* |