

Ready to Succeed
at Key Stage 4



Biddick
Academy

Now it's time to starting thinking about getting ready for the subjects that you have chosen to study at GCSE. The activities below have been specifically chosen by Faculty Leaders for you to complete over the Summer Holidays before you start your GCSE studies in September. The tasks are fun and interesting and have been chosen to engage and excite you about the subjects which you are going to study and will help to bridge the gap between KS3 and KS4. Try and complete at least one of these for each of your chosen subjects over the Summer Holidays!

	Watch 	Read 	Cultural Capital 
English	<p>The film 'Tolkien'</p> <p>A free National Theatre performance on www.nationaltheatre.org.uk</p>	<p>'1984' by George Orwell</p> <p>'To Kill A Mockingbird' by Harper Lee</p> <p>and/or 'I Am Malala' by Malala Yousafzai</p>	<p>Research famous authors from the North East of England</p> <p>Learn a poem by heart from www.poetrybyheart.org.uk/learningzone</p>
Maths	<p>The film 'The Imitation Game' and/or 'Moneyball'</p>	<p>'Murderous Maths' book series by Kjartan Poskitt</p> <p>http://www.murderousmaths.co.uk/books/books.htm</p>	<p>Plan your dream post-lockdown holiday flying from Newcastle Airport:</p> <p>What is the local currency and what is the exchange rate?</p> <p>If your flight departs at 10am, what time will you have to leave home?</p> <p>What's your total budget?</p>
Biology	<p>The film 'Jurassic Park' or 'We bought a Zoo'</p> <p>Any of the Planet Earth series.</p>	<p>'My Sister's Keeper' by Jodi Picoult</p> <p>sciencenews.org</p>	<p>Find out what research / experiments the Centre for Life are currently undertaking.</p> <p>Why do zoos have an important part to play in conservation?</p> <p>Which animal/plant would you protect and why?</p>
Chemistry	<p>Chemistry: A Volatile History</p> <p>https://www.bbc.co.uk/iplayer/episode/b00qjngc/chemistry-a-volatile-history-3-the-power-of-the-elements</p>	<p>The Cartoon Guide to Chemistry by Larry Gonick and Craig Criddle</p>	<p>Find out and describe the chemical reactions which take place in your everyday life. What are the products?</p> <p>What are the reactants? E.g. Baking a cake, rusting of iron</p>
Physics	<p>The film 'The Martian'</p> <p>Bring It On 2020</p> <p>http://www.bringitonne.co.uk/bring-it-on/</p> <p>Shock and Awe: The Story of Electricity</p> <p>https://www.bbc.co.uk/iplayer/e</p>	<p>Hitchhiker's Guide to the Galaxy by Douglas Adams</p>	<p>Research how electricity is produced in this country and how it reaches your home. How is its production changing?</p>

History	Crime & Punishment Documentary by Tony Robinson on More4	Horrible Histories Book Series – 'Measly Middle Ages', 'Smashing Saxon's, 'Stormin' Normans', 'Tudors & Stuarts', 'Vile Victorians'	Visit the Workhouse, Police Station and Courthouse in Ripon (https://riponmuseums.co.uk/museums/courthouse_museum) Research the History of Northumbria Police and what it's like to be a Police Officer
Geography	The film San Andreas and/or The Impossible	Vesuvius - Asleep for now https://www.nationalgeographic.com/magazine/2007/09/vesuvius-volcano-dormant-eruption-pompeii/ The Aftermath of Everest's Deadly Avalanche https://www.nationalgeographic.com/news/2014/4/140419-everest-avalanche-sherpas-climbing-aftermath/	Visit Northumberlandia on the Blagdon estate just north of Newcastle to see the open cast coal mine Visit Newcastle Quayside to see the regeneration and redevelopment since the days of ship building
RE	Watch the film 'Million Dollar Baby' or 'Hacksaw Ridge'	'Noughts and Crosses' by Malorie Blackman and/or 'Inside the Soul of Islam' by Mamoon Yousaf	Go for a family walk around Durham Cathedral or your local Church/ Mosque. Take photos of interesting features you would like to learn more about and research them. If you can, go inside and ask for some information about the building and religion. You could also make your own 'virtual tour' video as you walk around!
French	The French film 'Les Choristes' on YouTube	A French article on 'www.lingua.com'	Research task - which city in France is twinned with Sunderland?
Spanish	'Mi Vida Local' on BBC website	Read an article of your choice on 'www.tuenlinea.com'	Research task – Which Spanish destinations can you fly to from Newcastle Airport?
iMedia	The History of Disney Animation: https://www.youtube.com/watch?v=gvgdHj8uYho	https://newstyleprint.com.au/the-power-of-colour-in-printed-media/	Watch a movie of your choice and then storyboard a small section of it, maybe even storyboard an alternative ending with explanations about why it is better than the original. Watch how Moana was storyboarded for inspiration: https://youtu.be/w2Pg7p_IB2A

<p>Computer Science</p>	<p>BBC Click - pick a couple of episodes on something you find interesting</p> <p>www.youtube.com/user/ClickBBC</p>	<p>The CS4Fun magazine: cs4fn.org/magazine/magazine.html</p>	<p>Find something in your local area that relies on algorithms/instructions to work, write down the steps it takes. Can you make the steps more efficient without changing the function? A good example is a traffic light.</p>
<p>Enterprise</p>	<p>An episode or two of Dragons Den, they are available on YouTube & BBC iPlayer</p>	<p>An article or two on BBC business news: https://www.bbc.co.uk/news/business</p>	<p>Choose a small local business. Can you identify who its perfect customer is? How do they do this and does it work? How could you improve the logo?</p>
<p>Dance</p>	<p>Rosas Danst Rosas https://www.youtube.com/watch?v=82pgDvbPtx4</p>	<p>Research resources: What is the piece about? https://getrevising.co.uk/diagrams/rosas</p> <p>Greenfield school click on the power point https://moodle.greenfieldschool</p>	<p>Who are you favourite dancers and dance companies and from where do they originate?</p>
<p>Drama</p>	<p>Theatre Trailer for The Curious Incident of the Dog in the Night Time (https://www.youtube.com/watch?v=UVrOsXhG61Q)</p> <p>National Theatres Video on the making of the show (https://www.youtube.com/watch?v=k2bV75ITXJw)</p>	<p>The Curious Incident of the Dog in the Night Time</p> <p>(Audio book by Mark Haddon https://www.youtube.com/watch?v=PgZx_lrgWKE)</p>	<p>Rowan Atkinson, the actor who played Mr Bean, was born here in the North East of England. Research which other famous actors have come from our region, who has been the most successful? Research 5 local theatres and develop an understanding of different stage types</p>
<p>Sport Science</p>	<p>Running for Good: The Fiona Oakes Documentary</p>	<p>Usain Bolt: Faster than lightning and/or My story</p>	<p>Research local clubs and sports facilities in the local area What do you think is missing in our community? Design a proposal to open up a new club or sports facility Why have you picked this? Why is this needed in the area? What positives will it bring to our community?</p>
<p>Art and Design</p>	<p>About any of the Baltic Art Gallery's past exhibitions</p>	<p>Any of the following YouTube clips:</p> <ol style="list-style-type: none"> 1. Tate shots: Why study Art 2. Who is Rachel Whiteread 3. Portrait artist of the year 4. The Great British Pottery Throw down 	<p>Research any artist that distorts faces or facial features</p>

<p>Fine Art</p>	<p>Banksy's NHS graffiti https://www.bbc.co.uk/news/entertainment-arts-52556544</p>	<p>Top 10 Greatest Banksy Art https://www.youtube.com/watch?v=DwgAtYYxHc4</p>	<p>Photograph any graffiti in your local area</p>
<p>Textiles</p>	<p>Project Runway and / or The Great British Sewing Bee</p>	<p>Girl Boss by Sophia Amoruso and/or The Life and the Legacy Alexander McQueen by Judith Watt</p>	<p>Virtually walk around live fashion exhibitions on the V&A website (www.vam.ac.uk)</p>
<p>Digital Art</p>	<p>Go to YouTube, search for and watch the following videos:</p> <ul style="list-style-type: none"> • Learn Photoshop in 5 MINUTES! Beginner Tutorial • Search for 'Photoshop Speed Art' and watch some speed art of your choice. <p>Try looking at the kind of things you can be doing: https://displate.com/blog/10-digital-collage-ideas-you-must-try-now</p>	<p>Go to Google and search for '20 Digital Art Examples That Shows Creativity' and then '25 Interesting Digital Art Pieces'. Read the articles and then look at the examples of the kind of Digital Artwork you can create.</p> <p>https://creativeoverflow.net/20-digital-art-examples-that-shows-creativity/</p> <p>https://creativeoverflow.net/25-interesting-digital-art-pieces/</p>	<p>https://www.graeme-peacock.com/</p> <p>Graeme Peacock is a photographer from the North East. Have a look through the photographs on his website and then try to take at least 5 photographs which capture your post-lockdown adventures</p>
<p>Engineering</p>	<p>The film 'Apollo 13'</p>	<p>An article by the British inventor James Dyson</p>	<p>Research task – how many bridges can you think of which span the River Tyne in Newcastle or the Rive Wear in Sunderland?</p> <p>Model a new bridge that would safely transport pedestrians and cyclists across a river of your choice.</p>
<p>Hair and Beauty</p>	<p>1980's Inspired - Makeup Tutorial https://www.youtube.com/watch?v=lzrRGWLBkqQ</p>	<p>Women's 1940s Makeup: An Overview https://hair-and-make-up-artist.com/womens-1940s-makeup/</p>	<p>How many hair or beauty salons can you find / list in Newcastle City Centre or Sunderland City Centre?</p>
<p>Hospitality and Catering</p>	<p>1. The Great British Bake off 2. Master chef 3. Four in a bed 4. A hotel for the rich and famous</p>	<p>Read the article: 'What is Hospitality' https://www.bbc.co.uk/bitesize/guides/zvtx47h/revision</p>	<p>1. Find a recipe and make a dish from a different country that you haven't made before 2. Research task - find out what is meant by 'head chef', 'sous chef', 'commis chef' and 'chef de partie'. What are their roles?</p>

Music	Stairway To Heaven Kennedy Centre 2012 (YouTube) Queen Live Aid (YouTube)	Mind The Bach - Classical Music On The Underground - Independent.co.uk	Research the following local musicians : Chris Rea, Paul Rogers, Sting, Mark Knopfler
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How many tasks have you completed?

Ask your parents to sign below whenever you have completed a task and bring this booklet with you when we return to school to receive your rewards!

Subject	Watch	Read	Cultural Capital
English			
Maths			
Biology			
Chemistry			
Physics			
History			
Geography			
RE			
French			
Spanish			
iMedia			
Computer Science			
Enterprise			
Dance			
Drama			
Sport Science			
Art and Design			
Fine Art			

Textiles			
Digital Art			
Engineering			
Hair and Beauty			
Hospitality and Catering			
Music			