



## Supporting Your Child's Learning

### Spring Term - Year 10

At Yardleys, we understand that it can sometimes be difficult to know how best to support your children through their studies. But we also know that the more our students talk about their work, both inside and outside of school, the deeper and more flexible their learning. We need you to help us promote the school values of **curiosity** and **reflection** beyond our classrooms and, in doing so, help your child on their journey to academic success! Below is a condensed plan of what your child will be studying in their core subjects this term, along with some suggestions of additional home learning activities - things you might watch, listen to or discuss together - in order to support their learning in school.

	<b>Watch</b> (Access ClickView via the 'Homework Hub' section of the VLE)	<b>Listen</b> (Use BBC Sounds and Spotify to access suggested podcasts)	<b>Discuss</b> (Start up a conversation with your child around these topics)
<b>Spring 1</b>			
<b>English</b> Students will be reading the play 'Romeo and Juliet', they will be focused primarily on plot and knowledge associated with close text analysis.	Baz Luhrmann's 'Romeo and Juliet' (1996)  Carlo Carlei's 'Romeo and Juliet' (2013)  Eric Whyman, RSC's 'Romeo and Juliet'	'Teach Me a Lesson' podcast S1 E3: Should You Believe in Love at First Sight?  'Shakespeare For All' podcast; 3 podcasts about the plot, characters and language of the play.	Do you believe in love at first sight?  Which is stronger: family or romantic love?  Is there such a thing as fate? What control do we have over it?  Which is more powerful: love or hate?
<b>Maths Foundation:</b>  substitution solving linear equations basic angles pie charts area of 2D shapes probability speed	<a href="https://corbettmaths.com/2012/08/20/substitution-into-expressions/">https://corbettmaths.com/2012/08/20/substitution-into-expressions/</a>  <a href="https://corbettmaths.com/2012/08/24/solving-equations/">https://corbettmaths.com/2012/08/24/solving-equations/</a>  <a href="https://corbettmaths.com/2012/08/10/angles-in-a-triangle/">https://corbettmaths.com/2012/08/10/angles-in-a-triangle/</a>  <a href="https://corbettmaths.com/2013/05/25/interpreting-pie-charts/">https://corbettmaths.com/2013/05/25/interpreting-pie-charts/</a>  <a href="https://corbettmaths.com/2013/12/22/area-of-a-circle-video-40-and-59/">https://corbettmaths.com/2013/12/22/area-of-a-circle-video-40-and-59/</a>  <a href="https://corbettmaths.com/2013/06/15/probability/">https://corbettmaths.com/2013/06/15/probability/</a>  <a href="https://corbettmaths.com/2016/01/01/speed-distance-time/">https://corbettmaths.com/2016/01/01/speed-distance-time/</a>	Work out the value of $3a-2b$ when $a = 5$ and $b = -5$  Can you solve $3x + 2y = 24$ ?  What is the sum of internal angles for an octagon?  Do the angles in ALL triangles sum to 180?  What does the angle at the centre of pie chart tell us?  What is the formula for the area of a Circle? T he probability it will rain is 0.65, what is the probability it will NOT rain? Give your answer as a fraction, decimal & %  If it takes Matt 30 mins to drive 25 miles, what is his average speed? What are the units of your answer?	
<b>Maths Higher:</b>  angles in polygons surds inverse proportion area algebraic fractions probability Venn diagrams	<a href="https://corbettmaths.com/2012/08/10/angles-in-polygons/">https://corbettmaths.com/2012/08/10/angles-in-polygons/</a>  <a href="https://corbettmaths.com/2013/05/11/surds/">https://corbettmaths.com/2013/05/11/surds/</a>  <a href="https://corbettmaths.com/2013/04/04/inverse-proportion/">https://corbettmaths.com/2013/04/04/inverse-proportion/</a>  <a href="http://corbettmaths.com/2012/08/02/area-of-a-sector-video/">http://corbettmaths.com/2012/08/02/area-of-a-sector-video/</a>  <a href="http://corbettmaths.com/2013/01/19/simplifying-algebraic-fractions/">http://corbettmaths.com/2013/01/19/simplifying-algebraic-fractions/</a>	How do you work out an internal angle/external angle for a regular polygon?  Can you simplify $\sqrt{18} + \sqrt{50}$ ?  What does the graph of 'inverse proportion' look like? What is the formula for the area of a sector? Can you cancel $3x+94x+12$ ?  When do you add fractions in probability? When do you add fractions in probability?	

	<p><a href="http://corbettmaths.com/2013/06/18/conditional-probability/">http://corbettmaths.com/2013/06/18/conditional-probability/</a></p> <p><a href="https://corbettmaths.com/2016/08/07/venn-diagrams/">https://corbettmaths.com/2016/08/07/venn-diagrams/</a></p>	What does the "middle overlapping" part of a Venn diagram tell us?	
<b>Science</b> <b>Biology:</b> Animal coordination, control and homeostasis (B7) Cells and Control (B2)	What is Homeostasis?  Diabetes & Hyperthyroidism  Types of Cells  The Eye	Africa Daily: Is diabetes in Africa a ticking time bomb? (BBC Sounds) Body Talk: The Nervous System (BBC Sounds)	What do the kidneys do? Why is drinking plenty of water important?  Why do we need reflexes? How does a reflex action happen? Who has the fastest reflexes in your family?  Why do some people need to wear glasses? How much of what we see is caused by our eyes, and how much is caused by the brain?
<b>Physics:</b> Astrophysics	Searching Space (BBC iPlayer)  Discovering Our Place in Space (BBC iPlayer)	5 Live Science Podcast: Space Travel (BBC Sounds)  13 Minutes to the Moon (BBC Sounds)  5 Live Science: Solar Flares (BBC Sounds)	Does the future of human existence mean moving to other planets?  What is the speed of light? What is a light-year?  What happens when stars run out of fuel?
<b>Chemistry:</b> Rates and Energy Changes	Chemistry: Rates of Reaction	Rates of Reaction (GCSE Pod)	Why does a cake bake faster in an oven?
<b>Spring 2</b>			
<b>English</b> Students will finish reading the play 'Romeo and Juliet' and will think about whole text response style answers. In this half term, students will also complete their Speaking and Listening Exam.	Shakespeare: Rise of a Genius (BBC iPlayer)  'Noughts and Crosses' (BBC iPlayer)	'Much Ado About Shakespeare' podcast - 'What can Shakespeare teach us about society today?'	How is fate seen as destructive for both Romeo and Victor Frankenstein?  How important is physical beauty in 'Romeo and Juliet' and 'Frankenstein'?
<b>Maths Foundation:</b>  MMMR probability area of shapes circles	<p><a href="https://corbettmaths.com/2012/08/02/the-mean/">https://corbettmaths.com/2012/08/02/the-mean/</a></p> <p><a href="https://corbettmaths.com/2013/06/15/probability/">https://corbettmaths.com/2013/06/15/probability/</a></p> <p><a href="https://corbettmaths.com/2012/08/02/area-of-compound-shapes/">https://corbettmaths.com/2012/08/02/area-of-compound-shapes/</a></p> <p><a href="https://corbettmaths.com/2013/12/22/area-of-a-circle-video-40-and-59/">https://corbettmaths.com/2013/12/22/area-of-a-circle-video-40-and-59/</a></p>	Can you work out the median, mode, mean and range for 3,3,4,5,10?  What will the sum of probabilities always be?  What is the area formulae for a: triangle? Square? Rhombus? Trapezium? Circle?	
<b>Maths Higher:</b>  area of circles algebraic fractions probability	<p><a href="https://corbettmaths.com/2013/12/22/area-of-a-circle-video-40-and-59/">https://corbettmaths.com/2013/12/22/area-of-a-circle-video-40-and-59/</a></p> <p><a href="https://corbettmaths.com/2013/01/19/simplifying-algebraic-fractions/">https://corbettmaths.com/2013/01/19/simplifying-algebraic-fractions/</a></p> <p><a href="https://corbettmaths.com/2013/06/18/conditional-probability/">https://corbettmaths.com/2013/06/18/conditional-probability/</a></p> <p><a href="https://corbettmaths.com/2013/05/07/tree-diagrams/">https://corbettmaths.com/2013/05/07/tree-diagrams/</a></p>	What is the area formula for a circle?  What must the sum of probabilities always sum to?  How can a tree diagram help tell the difference between 'or' & 'and'?	

<b>Science</b> <b>Biology:</b> Health, disease and the development of medicines (B5)	'Ten Bad Things You Didn't Know about Smoking and Tobacco'  Horizon: Sugar V Fat, Balanced Diet	Health Check: Flood Spreading I Pakistan (BBC Sounds)  More or Less: The Truth About Obesity and Covid-19 (BBC Sounds)	Are natural disasters increasing the spread of disease?  Is obesity causing people to become more ill from other diseases?
<b>Physics:</b> Forces and their Effects	Forces of Nature (BBC iPlayer)  <a href="https://online.clickview.co.uk/libraries/videos/9352763/physics">https://online.clickview.co.uk/libraries/videos/9352763/physics</a>  <a href="https://phet.colorado.edu/en/simulations/forces-and-motion">https://phet.colorado.edu/en/simulations/forces-and-motion</a>		The Greek philosopher, Archimedes, said, "Give me a lever long enough and a fulcrum on which to place it, and I shall move the world." - Could he? How long would his lever need to be?
<b>Chemistry:</b> Rates and Energy Changes	Exothermic and Endothermic Reactions	Exothermic and Endothermic Reactions (GCSE Pod)	Explain how endothermic reactions differ to exothermic reactions
<p><b>Whilst there is no formal whole school assessment week, students will have regular opportunities for directed independent practice that will be assessed by their class teacher. In English, students will complete their Speaking and Listening endorsement in Spring 2. This is part of their English Language GCSE assessment. Details will follow closer to the time.</b></p>			