

### Paxman Academy Curriculum Overview for Parents and Carers - Year 7 - Summer 2021

Real learning happens when we have to talk about what we have learnt, and when we choose to go ahead and find out more.

Use the information below to talk to your child about their learning in different subject areas. What do they know? What do they want to find out next?

Subject	Topic	Top 5 Subject Terms	Learning Conversation Questions	Super Curricular suggestions- take it further!
<b>English</b>	<i>WW1: Journey's End</i> by R.C. Sherriff	Stage directions Themes Motifs Characterisation Propaganda	What would life have been like in the trenches during WW1? What was shellshock and how might it have influenced the lives of the soldiers? How was propaganda used to persuade young men to sign up for the war? What are the main themes of the story? How is conflict portrayed in the play 'Journey's End'?	<p><b>DO:</b> Research trench warfare and the living conditions of soldiers on the front line during WW1.</p> <p><b>READ:</b> Visit the BBC Bitesize website to read more about the plot and characters of the play: <a href="https://www.bbc.co.uk/bitesize/topics/zpqt7p3">https://www.bbc.co.uk/bitesize/topics/zpqt7p3</a></p> <p><b>WATCH:</b> The film adaptation of 'Journey's End'</p> <p><b>LISTEN:</b> Visit youtube and listen to the audio version of the play.</p>
<b>Maths</b>	Probability  Angles and shapes	Probability scale Sample space diagram Triangle Quadrilateral Polygon	Describe the likelihood of different events happening using the probability scale. Calculate the probability of different events happening as a fraction, decimal and percentage. What is the etymology of the word polygon and what other words does this link to? Is it more likely to get a total 6 when rolling one dice or when rolling two? How many other words can you think of that start with 'quad' or 'tri'? What does this tell us about these words?	<p><b>DO:</b> Measure/estimate as many angles around your home as possible and categorise them as acute, obtuse or reflex.</p> <p><b>GO:</b> Bletchley Park, Buckinghamshire</p> <p><b>READ:</b> Rob Eastaway - How long is a piece of string?</p> <p><b>WATCH:</b> Any corbettmaths video on the topic you are studying. A selection are linked below:  <a href="https://youtu.be/ur_hHjLrBNo">https://youtu.be/ur_hHjLrBNo</a>  <a href="https://youtu.be/Xqno7W0OUtE">https://youtu.be/Xqno7W0OUtE</a>  <a href="https://youtu.be/y9T5ol65mSU">https://youtu.be/y9T5ol65mSU</a>  <a href="https://youtu.be/QEsjleSnEHU">https://youtu.be/QEsjleSnEHU</a>  <a href="https://youtu.be/y9udtA3cPgU">https://youtu.be/y9udtA3cPgU</a></p> <p><b>LISTEN:</b> BBC Learning Maths Challenge Podcast</p>

<b>Science</b>	Topic 7 - Interdependence & plant reproduction  Topic 8 - Energy costs & transfer  Topic 9 - Variation & human reproduction  Topic 10 - Sound & light	Trophic level  Potential energy  Haploid  Transverse  Longitudinal	<ul style="list-style-type: none"> <li>• What is a producer and a consumer?</li> <li>• What are the male and female parts of a flower?</li> <li>• How is electricity generated at a coal power station?</li> <li>• What is the difference between potential and kinetic energy?</li> <li>• Why are egg and sperm cells haploid?</li> <li>• What is reflection and refraction?</li> </ul>	<p><b>DO:</b> Research how light behaves when passed through different objects or how certain objects appear when viewed through water.</p> <p><b>GO:</b> Visit an electrical power station when away on holiday.  <a href="https://www.electricmountain.co.uk/">https://www.electricmountain.co.uk/</a> Electric mountain is a great one to visit in Wales.</p> <p><b>READ:</b> An energy bill from home. What is the amount of energy being used and how much does it cost? Is there any reference to a breakdown of energy consumption.</p> <p><b>WATCH:</b> Blue planet 2</p> <p><b>LISTEN:</b> to various youtube videos about variation and the role that genetics plays in this.</p>
<b>History</b>	The Transatlantic Slave Trade	Indiginous Rebellion Enslaved Abolition Transatlantic Slave Trade	<ul style="list-style-type: none"> <li>-Who were the Powhatan Peoples?</li> <li>- Who were the different people living in British America?</li> <li>- How did Sugar Barons make their fortunes?</li> <li>- Why were people enslaved?</li> <li>- What was it like for the enslaved people working in Jamaica and how did they try to free themselves?</li> <li>- What was the Abolition movement?</li> <li>- How did the Slave Trade in the British Empire end?</li> <li>- How successful were efforts to abolish slavery in the nineteenth century?</li> </ul>	<p><b>DO:</b> Research the National Trust Slavery Report. Should these places be opened for people to visit?</p> <p><b>GO:</b> When visiting a museum, see if there are any artefacts with links to colonialism and consider what they tell us about Britain's history.</p> <p><b>READ:</b> Black and British: A short, essential history by David Olusoga.</p> <p><b>WATCH:</b> <i>Amazing Grace</i> (2006)</p> <p><b>LISTEN:</b> 'Who was the real Pocahontas?' - Homeschool History podcast</p>

<b>Geography</b>	The World of Work	Employment sectors  Tertiary  Quaternary  Tourism  Ecotourism	<ul style="list-style-type: none"> <li>- How do we classify different types of employment?</li> <li>- How do employment structures differ around the world?</li> <li>- What are the factors which influence the location of different industries?</li> <li>- What are quaternary industries?</li> <li>- What are the impacts of different industries?</li> <li>- Why is tourism an important tertiary industry?</li> <li>- How do the impacts of tourism change over time?</li> <li>- What is ecotourism?</li> </ul>	<p><b>DO:</b> Research businesses and shops in Colchester, and sort them into the different employment sectors.</p> <p><b>GO:</b> On any trip or holiday you take, consider the tourism that you are engaging in, and how this affects the local area.</p> <p><b>READ:</b> <i>The Almighty Dollar</i> by Dharshini David is a wonderful book that explains the world's global economy.</p> <p><b>WATCH:</b> This informative <a href="#">video</a> provides a detailed breakdown of the different employment sectors.</p> <p><b>LISTEN:</b> This is an excellent <a href="#">podcast</a> looking into the present and the future of the high-street and Britain's tertiary industry: <i>How is high street regeneration managed?</i> by Dr. Steve Millington.</p>
<b>RE</b>	Hinduism	Veda Diwali Caste system Dharti Patriarchal society	<ul style="list-style-type: none"> <li>- What is Hinduism?</li> <li>- How do Hindu's express their devotion in worship?</li> <li>- Why do Hindu's take pilgrimages?</li> <li>- What are the meanings of Hindu festivals?</li> <li>- How have Hindu beliefs about the caste changed?</li> <li>- What do Hindu's believe about violence?</li> <li>- Do Hindu women have a different role to men?</li> <li>- Can ancient teachings show Hindu's how to respond to environmental problems?</li> </ul>	<p><b>DO:</b> Research how Hinduism informs activities such as yoga.</p> <p><b>READ:</b> 'Happy Diwali' article by National Geographic.</p> <p><b>WATCH:</b> 'What does the Hindu tradition have to say about the environment?' video on Youtube made by the LSE.</p>

<b>Spanish</b>	Mi ciudad= My town	<p>1. En mi ciudad <b>hay</b>...- in my town there is...          En mi ciudad <b>no hay</b>...- in my town there isn't ....</p> <p>un/una= a          unos/unas= some          muchos/muchas= many</p> <p>2. Voy= I go          va=he/she goes          Vamos= we go          van=they go</p> <p>3. A+ el= al= to the ( followed by a masculine noun)           A + la= a la= to the ( followed by a feminine noun)</p> <p>4. <b>Voy a jugar</b> al fútbol= I am going <b>to play</b> football.</p>	<p>-Why in Spanish there are 2 different ways of saying -a-?          -Why in Spanish there are 2 different ways of saying -some-?          -Why in Spanish there are 2 different ways of saying -many-?</p> <p><b>-If in Spanish shop= tienda and shops= tiendas</b>          how do I say:</p> <ul style="list-style-type: none"> <li>- <b>In my town there is a shop</b></li> <li>- <b>In my town there are some shops</b></li> <li>- <b>In my town there are many shops</b></li> <li>- <b>In my town there aren't many shops</b></li> </ul> <p><b>-What is the Spanish for:</b> I go/ he goes/ we go/ they go</p> <p>Which of the 2 sentences is correct in Spanish and why?</p> <ul style="list-style-type: none"> <li>- <b>Voy <u>al</u> cine</b> or <b>voy <u>a la</u> cine</b></li> </ul> <p>-When using the structures: voy a/ va a/ vamos a= the verb used straight after must be in what form?  <b>Answer:</b> infinitive ( must end in -ar/-er/-ir) therefore to + action. Ex: jugar= to play</p>	<p><b>DO:</b> ask someone in your year group/ class/ your teacher to help you understand/ to explain something you didn't fully understand in class.</p> <p><b>GO:</b> To the website Seneca, sign in using your account, and complete activities linked to module Mi ciudad. The work has already been assigned with a 30 June deadline.</p> <p><b>READ:</b>  <a href="https://docs.google.com/document/d/1Zdt1cV9jwdQS3UI0oyUXFHhA34pQnoGbe7IAikWY5HQ/edit">https://docs.google.com/document/d/1Zdt1cV9jwdQS3UI0oyUXFHhA34pQnoGbe7IAikWY5HQ/edit</a></p> <p><b>WATCH:</b>  <a href="https://www.youtube.com/watch?v=lvMh0OrcttM">https://www.youtube.com/watch?v=lvMh0OrcttM</a>  <a href="https://youtu.be/RBbPffA3YIA">https://youtu.be/RBbPffA3YIA</a></p> <p><b>LISTEN:</b>  <a href="https://www.youtube.com/watch?v=eAi6JNYLloc">https://www.youtube.com/watch?v=eAi6JNYLloc</a>  <a href="https://www.youtube.com/watch?v=YXnjy5YIDwk">https://www.youtube.com/watch?v=YXnjy5YIDwk</a></p>
<b>Art</b>	<b>Abstract Portraits</b>	Colour theory  Mark making  Perspective  Tonal Pencil  Shading	<ul style="list-style-type: none"> <li>● Does Art need to be realistic?</li> <li>● What makes a piece of Art meaningful?</li> <li>● How does Art convey emotions?</li> <li>● Does everyone view an artwork the same way? Why?</li> </ul>	<p><b>DO:</b> Practice mark making whilst listening to music - paint the feeling of the music.</p> <p><b>BE INSPIRED :</b> by the work of Sandra Silberzweig</p> <p><b>READ:</b> Abstract Art: BA (Basic Art Series 2.0) - Taschen</p>

<b>Music</b>	<b>Digital Music: Performing and composing Electronic Dance Music</b>	<b>MIDI</b>  <b>Bit</b>  <b>Sample rate</b>  <b>A/D conversion</b>  <b>Digital Audio Workstation</b>	<p>Where did Dance and Techno music originate from?</p> <p>Why is it important to learn about EDM?</p> <p>Why is composing with MIDI more relevant than composing with audio samples?</p>	<p><b>DO:</b> Using compositional devices to make music</p> <p><b>GO:</b> Festivals and Concerts.</p> <p><b>READ:</b> My Music Theory free online course  <a href="https://www.mymusictheory.com">https://www.mymusictheory.com</a></p> <p><b>WATCH:</b> Avicii in the studio - The Making of Dancing In My Head  <a href="https://www.youtube.com/watch?v=-dlcuU580y8">https://www.youtube.com/watch?v=-dlcuU580y8</a></p> <p><b>LISTEN:</b> EDM artists (Avicii, David Guetta, Calvin Harris, Eric Prydz, Carl Cox).</p>
<b>Drama</b>	<b>The Box: Improvisation in Context</b>	<b>Props</b> <b>Movement and tempo</b> <b>Facial expressions</b> <b>Body language</b> <b>Transitions</b>	<p>Which drama skills are important when playing a character that is not yourself?</p> <p>Why is rehearsal an important part of producing and effective performance?</p> <p>Why are blocking and transitions important?</p>	<p><b>DO:</b> Create your own ideas for characters and consider how props and costumes can contribute to the creation of character.</p> <p><b>READ:</b> BBC Bitesize website for ideas about improvisation in Drama:  <a href="https://www.bbc.co.uk/bitesize/guides/zts9xnb/revision/1">https://www.bbc.co.uk/bitesize/guides/zts9xnb/revision/1</a></p> <p><b>WATCH:</b> A performance or production and note down ideas about how the actors create character through voice, movement, facial expressions and body language</p>

<b>Technology</b>	Supermarket stitch - Textiles	Weaving  Felting  Knitting  Embroidery  Template  Sustainability	<ul style="list-style-type: none"> <li>● Why is learning to sew important?</li> <li>● But fashion and interior design is for girls, isn't it?</li> <li>● Why is it important to consider the environment as well as moral and social impact when designing any product?</li> <li>● Why is repairing and recycling clothes becoming so important now?</li> <li>● What does textile technology and race car drivers have in common?</li> </ul>	<p><b>DO:</b> practice thread a needle and consider the types of fabric that have been used to make the clothes in your wardrobe.</p> <p><b>READ:</b> Wear, Repair, Repurpose: A Maker's Guide to Mending and Upcycling Clothes by Lily Fulop</p> <p><b>BE INSPIRED:</b> By the work of Lucy Sparrow <a href="https://www.sewyou soul.co.uk/">https://www.sewyou soul.co.uk/</a></p> <p><b>WATCH:</b> The Great British Sewing Bee</p>
<b>ADP</b>	Presenting information	Tier 2 Sequencing Persuading Informing	<p>How can you present subject matter in an interesting and informative way?</p> <p>How can you persuade someone to share your point of view?</p> <p>What techniques are used in advertising?</p>	<p><b>DO:</b> Design a product and a sales pitch</p> <p><b>GO:</b> Research Business Studies qualifications</p> <p><b>READ:</b> A variety of information giving texts</p> <p><b>WATCH:</b> Dragons Den and Blue Planet</p> <p><b>LISTEN:</b> The art of selling - podcast</p>

<b>Physical Education</b>	Handball Table Tennis Athletics Striking & Fielding	Tactics Strategies Technique Analyse Principles	<p><b>Handball</b>          Can you demonstrate a range of tactics and strategies to overcome an opponent in Handball?          Can you apply the bounce pass and shoulder pass in a competitive situation?          Can you explain a variety of Handball rules linked to the skills of passing, shooting, dribbling and defending?</p> <p><b>Table Tennis</b>          Can you demonstrate a legal serve?          Can you demonstrate a backhand and forehand push?          Can you explain the rules linked to serving in a competitive situation?</p> <p><b>Athletics</b>          Can you demonstrate the correct technique in throwing events (javelin, shot put and discuss)?          Can you pace yourself efficiently in a mid to long distance race?          Can you explain different techniques used for passing over a baton in a relay race?</p> <p><b>Striking and fielding</b>          Can you begin to apply tactics in game situations, when both fielding and batting?          Can you demonstrate a variety of techniques when fielding?</p>	<p><b>DO:</b> Improve your hand-eye coordination skills. All you need is a ball (e.g. tennis ball), or just a rolled up pair of socks! Look at this video to give you some ideas  <a href="https://www.youtube.com/watch?v=GvdLf45mGq0&amp;feature=emb_logo">https://www.youtube.com/watch?v=GvdLf45mGq0&amp;feature=emb_logo</a></p> <p><b>GO:</b> Join a local athletics, handball, table tennis, rounders or cricket club. Speak to your PE teachers if you need any help seeking one.</p> <p><b>READ:</b> Visit the websites for the sports covered this term. Read the latest match/event reports, you could even watch a game and write your own match report.  <a href="http://Englandhandball.com">Englandhandball.com</a>  <a href="https://www.britishathletics.org.uk/">https://www.britishathletics.org.uk/</a>  <a href="https://tabletennisengland.co.uk/">https://tabletennisengland.co.uk/</a>  <a href="https://www.ecb.co.uk/">https://www.ecb.co.uk/</a>  <a href="https://www.roundersengland.co.uk/">https://www.roundersengland.co.uk/</a></p> <p><b>WATCH:</b> The 2020(2021) Tokyo Olympics begin in July, ensure you tune in and watch the world's best athletes compete for Gold!</p> <p><b>LISTEN:</b>          To Olympic athletes stories around success, injuries and training  <a href="https://www.olympicchannel.com/en/podcast/">https://www.olympicchannel.com/en/podcast/</a></p>
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<b>Computer Science</b>	Programming with MicroBits	Execute Sequence Instructions Process Iterations	How do humans and computers understand instructions?  Do computers think for themselves?	<p><b>DO:</b> Write an algorithm/set of instructions for making beans on toast</p> <p><b>GO:</b> <a href="https://microbit.org/code/">https://microbit.org/code/</a></p> <p><b>READ:</b> <a href="#">The Pattern On The Stone - Little ideas that make computers work</a></p> <p><b>WATCH:</b> <a href="#">Topics - CHM Revolution (computerhistory.org)</a>(Online museum for the history of computers)</p> <p><b>LISTEN:</b> <a href="#">The birth of a computer</a></p>
<b>PSHE</b>	Relationships - Safe and Positive - Loving - Family  Puberty and growing up	Puberty Hormones Emotions Relationships	Types of relationships  What makes a positive relationship?  Change is normal, but it's important to talk about how you feel.  Personal hygiene is important as we go through puberty and beyond. Why?	<p><b>DO:</b> talk to student about any feelings they have about the topics they have talked about</p> <p><b>READ:</b> this resource is built for students to read, however it works well as a discussion for parents/carers to have with their children  <a href="https://www.brook.org.uk/your-life/puberty/">https://www.brook.org.uk/your-life/puberty/</a></p> <p>Dove have some super resources on confidence and self esteem.  <a href="https://www.dove.nationalschoolpartnership.com/resources-2021?dm_i=5ZWG,6FGC,17N1OD,QRQP,1">https://www.dove.nationalschoolpartnership.com/resources-2021?dm_i=5ZWG,6FGC,17N1OD,QRQP,1</a></p>