

### Paxman Academy Curriculum Overview for Parents and Carers - Year 8 -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>Identity: Non-fiction and Poetry</i>	Non-fiction Rhetoric Register Structural devices Imagery	<p>What are the key differences between biography and autobiography?</p> <p>What are the main rhetorical devices used in persuasive writing?</p> <p>How do you effectively argue a point of view in a piece of nonfiction writing?</p> <p>Why is poetry an effective form for exploring viewpoints and ideas?</p>	<p><b>DO:</b> Explore a range of nonfiction texts including opinion articles, famous speeches, autobiographical and biographical texts.</p> <p><b>READ:</b> Online news and opinion articles for example through 'The Guardian Online' or the BBC News website</p> <p><b>WATCH:</b> TED talks on a range of issues and debates: <a href="https://www.ted.com/talks">https://www.ted.com/talks</a></p> <p><b>LISTEN:</b> News podcasts e.g. BBC World Service, BBC Radio 4 or Woman's Hour</p>
<b>Maths</b>	Straight line graphs  Averages  Charts	Gradient  y - intercept  Mean  Median  Mode	<p>What is the difference between mean median and mode?</p> <p>Why is range not an average? What is it instead?</p> <p>In what situation is a bar chart more useful than a pie chart and vice versa?</p> <p>As the gradient increases what happens to a straight line graph?</p> <p>Which goes first x-coordinate or the y-coordinate? Is there an easy way to remember this?</p>	<p><b>DO:</b> Design a survey question on a topic of your choice. Calculate any of the averages that are applicable. Display your findings on an appropriate chart.</p> <p><b>GO:</b> Bletchley Park, Buckinghamshire</p> <p><b>READ:</b> Rob Eastaway - Why do buses come in threes?</p> <p><b>WATCH:</b> Any corbettmaths video on the topic you are studying. A selection are linked below:   <a href="https://youtu.be/7WubQNkpmMQ">https://youtu.be/7WubQNkpmMQ</a>  <a href="https://youtu.be/HjYhb078cbE">https://youtu.be/HjYhb078cbE</a>  <a href="https://youtu.be/x8oPXIrLMc0">https://youtu.be/x8oPXIrLMc0</a>  <a href="https://youtu.be/ID57vopo_Mw">https://youtu.be/ID57vopo_Mw</a></p> <p><b>LISTEN:</b> The Maths Dude Quick and Dirty Tips Podcast</p>

<b>Science</b>	Work, heating & cooling  Interdependence and plant reproduction  Energy costs and energy transfer  Variation and human reproduction  Sound and light	Gamete  Transverse  Conduction  Potential energy  Stamen	Why do some material conduct heat better than others?  How are plants adapted to encourage insect pollination?  How does gravitational potential energy become kinetic energy?  Why does a gamete contain only 50% of our DNA?  Why can sound not travel through space?	<p><b>DO:</b> Design an energy transfer diagram for lots of object around the home eg television, computer, iron.</p> <p><b>GO:</b> Visit the Eden project in Devon to gain an insight into plant structure and pollination.</p> <p><b>READ:</b> Richard Dawkins - The selfish gene</p> <p><b>WATCH:</b>  <a href="https://www.youtube.com/watch?v=nbXXFtF8Lzs">https://www.youtube.com/watch?v=nbXXFtF8Lzs</a>  <a href="https://www.youtube.com/watch?v=ilhEkW_rF4Y">https://www.youtube.com/watch?v=ilhEkW_rF4Y</a></p> <p><b>LISTEN:</b> ROYGBIV song from youtube</p>
<b>History</b>	The Second World War (including The Holocaust)	Blitzkrieg Axis Powers Atomic Bomb The Holocaust Resistance	<ul style="list-style-type: none"> <li>- When was the turning point during the Second World War?</li> <li>- What was the Holocaust?</li> <li>- How did Jewish people resist during the Holocaust?</li> </ul>	<p><b>DO:</b> Create a detailed timeline of the major events of the Second World War.</p> <p><b>GO:</b> The Imperial War Museum in London.</p> <p><b>READ:</b> <i>The Book Thief</i> by Markus Zusak. An excellent historical novel.</p> <p><b>WATCH:</b> <i>Dunkirk</i> (2017 film). A recent film that provides an excellent reconstruction of the events at Dunkirk.</p> <p><b>LISTEN:</b> The WW2 Podcast:  <a href="https://ww2podcast.com/">https://ww2podcast.com/</a></p>

<b>Geography</b>	Ecosystems	Biomes adaptation High Pressure Low Pressure Deforestation	<ul style="list-style-type: none"> <li>- Where are the major biomes of the world located?</li> <li>- What are the features of the major biomes of the world?</li> <li>- How can we use climate graphs to compare rainforests and deserts?</li> <li>- How do high and low pressure systems influence the world's biomes?</li> <li>- What is the structure of the Amazon rainforest?</li> <li>- Why is the nutrient cycle important in the rainforest?</li> <li>- How have plants and animals adapted to survive in the Amazon?</li> <li>- What are the causes of deforestation in the Amazon?</li> <li>- How can the Amazon rainforest be conserved?</li> <li>- How have plants and animals adapted to deserts?</li> <li>- What are the opportunities for northern Africa due to the Sahara Desert?</li> </ul>	<p><b>DO:</b> Research animal adaptations in the rainforest.</p> <p><b>GO:</b> Visit Abberton Reservoir or Canvey Wick and see if you can identify any ecosystems.</p> <p><b>READ:</b> 'Ecosystems' by National Geographic Society.</p> <p><b>WATCH:</b> David Attenborough 'Our Planet - Forests'.</p> <p><b>LISTEN:</b> 'How can we save our rainforests?' BBC World Service.</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)</p> <p>A + la= a la= to the ( followed by a feminine noun)</p> <p>4. <b>Voy a jugar</b> al fútbol= I am going to <b>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> castillo</b> or <b>voy <u>a la</u> castillo</b></li> <li>- <b>Va <u>a la</u> piscina</b> or <b>va <u>al</u> piscina</b></li> <li>- <b>Vamos <u>a la</u> plaza</b> or <b>vamos <u>al</u> plaza</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>-What is the Spanish for :          I am going to eat pizza  <b>Answer:</b> voy a comer pizza.</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>Still life</b>	Observational drawing  Mixed media  Form  Shape  Proportions	<ul style="list-style-type: none"> <li>● What are the elements of art?</li> <li>● What is abstract Art?</li> <li>● What makes Art, Art?</li> </ul> <p><b>Think about:</b> 'A line is a dot that went for a walk' Paul Klee</p>	<p><b>DO:</b> Practice drawing things around you - really look at shapes and forms. Don't imagine, look :)</p> <p><b>GO:</b> Look around you, look up, look down - what do you see. Look for patterns, shapes, forms and colours everywhere.</p> <p><b>BE INSPIRED and WATCH:</b> Grayson Perry's Art Club on channel 4</p>

<b>Music</b>	Souls music and pop: performing within an ensemble.	Odd time signatures Key signatures Intervals 7th Chords 2-5-1 Chord Progression	What is the difference between sharps and flats notes? Where does Pop music come from? How did "The Beatles" have stopped the war in Vietnam? Why do pop songs follow a similar chord structure?	<p><b>DO:</b> perform by singing or using an instrument or body movements.</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> Bruno Mars live on German TV <a href="https://www.youtube.com/watch?v=ZQMOp2jkVgg">https://www.youtube.com/watch?v=ZQMOp2jkVgg</a></p> <p><b>LISTEN:</b>          Bruno Mars Count on Me/Sam Smith Stay With Me/ Topic FT A7S Breaking Me/John Denver Take Me Home, Country Roads and student-led song choices</p>
<b>Drama</b>	Drama Practitioners: Berkoff and Stanislavski	Expressionism Total Theatre Physical Theatre Naturalism Emotional memory	What are the key features of expressionism? What do we mean by 'total theatre'? What is method acting and what techniques are associated with it?	<p><b>DO:</b> Practise method acting techniques explored in class e.g. using emotional memory</p> <p><b>GO:</b> To a production of a play or another piece of theatre to inspire your own performances.</p> <p><b>READ:</b> More information about Berkoff and Stanislavski online:  <a href="https://www.bbc.co.uk/bitesize/guides/zxn4mp3/revision/5">https://www.bbc.co.uk/bitesize/guides/zxn4mp3/revision/5</a>  <a href="https://www.bbc.co.uk/bitesize/guides/znn4vk7/revision/2">https://www.bbc.co.uk/bitesize/guides/znn4vk7/revision/2</a></p>

<b>Technology</b>	<b>Mobile Phone cover</b>	Specification  Form and function  Material  Construction  Ergonomic	<ul style="list-style-type: none"> <li>• What makes a product functional?</li> <li>• What makes a product aesthetically pleasing?</li> <li>• Why are measurements important when designing a new or existing product?</li> <li>• Why is ergonomics important?</li> <li>• What is the difference between style and fashion?</li> <li>• How can we be more sustainable?</li> </ul>	<p><b>DO:</b> look at existing products, what makes them relevant and how have they changed</p> <p><b>READ:</b> Things Come Apart 2.0: A Teardown Manual for Modern Living by Todd McClellan</p> <p><b>WATCH:</b> How things are made</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>

<b>CDP</b>	Our relationship with technology	Addiction Self esteem Relationship Technology Engagement	How much time do you spend using the internet or social media?  Is your relationship with technology healthy?  What might the warning signs be that your relationship with technology is unhealthy?  What else could you be doing instead of using technology such as a mobile phone or games console?	<p><b>DO:</b> Talk to friends and family about how much time you spend on technology such as mobile phones, social media, internet and games consoles. Is it healthy or do you potentially need to make some changes?</p> <p><b>GO:</b> Enjoy time with friends outside and away from technology. Play a sport, read a book or enjoy a conversation with someone.</p> <p><b>READ:</b>  <a href="https://www.bbc.co.uk/news/education-50593971">https://www.bbc.co.uk/news/education-50593971</a></p> <p><b>WATCH:</b> Simon Sinkey talking about our relationship with mobile phones -  <a href="https://www.youtube.com/watch?v=sL8AsaEJddo">https://www.youtube.com/watch?v=sL8AsaEJddo</a></p>
<b>Computer Science</b>	Mobile App Development	Event-Driven Programming Sequence Decompose Variables	What does a project manager do?  What does app user experience mean?	<p><b>DO:</b> Write down the mobile apps that you use most and think about why you use the mobile app instead of a browser based service</p> <p><b>GO:</b> <a href="https://code.org/educate/applab">https://code.org/educate/applab</a></p> <p><b>READ:</b>  <a href="https://www.bbc.co.uk/news/av/technology-56336176">https://www.bbc.co.uk/news/av/technology-56336176</a></p> <p><b>WATCH:</b>  <a href="https://www.youtube.com/watch?v=SebRctjvrVU">https://www.youtube.com/watch?v=SebRctjvrVU</a></p>

<b>PSHE</b>	Relationships Parenting Love is...?	Commitment  Consent  Sexuality  Partnership	<ul style="list-style-type: none"> <li>● What makes a positive relationship?</li> <li>● Is parenting for everyone?</li> <li>● What makes a good parent?</li> <li>● What are relationships?</li> <li>● Is there a difference between being attracted to someone and what sex you are?</li> <li>● What is the heforshe movement?</li> </ul>	<p><b>DO:</b> Talk to family about any queries and question</p> <p><b>READ:</b> website: Brook for help and advice</p> <p><b>WATCH:</b> Jamie - the musical</p>
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