ICT	Year 8 Content – Autumn/Spring	How to support students' learning
	Computational thinking techniques to solve problems. How data can be represented digitally using binary. Re-purposing digital images using photo editing software. Using a text-based programming language (Python) to execute instructions and demonstrate programming constructs including: - Sequencing - Selection - Iteration	• Encourage your child to use the BBC Bitesize information to reinforce learning on computational thinking techniques: https://www.bbc.co.uk/bitesize/guides/zp92mp3/revision/1 • Encourage your child to use the BBC Bitesize information to reinforce learning on how computer see the world: https://www.bbc.co.uk/bitesize/guides/z26rcdm/revision/1 • Encourage your child to be creative with free online photo editing software such as https://www.photopea.com/ • Encourage your child to practice their programming skills by completing projects on https://makecode.microbit.org/ and selecting Python when choosing a tutorial so that it is text-based not block based.
ICT	Year 8 Content – Spring Summer	How to support students' learning
	The purpose of HTML when building a website Creating a simple web page using HTML. Key algorithms for sorting and searching data. Using text-based programming language (Python) to execute instructions and demonstrate programming constructs including: - Sequencing - Selection - Iteration	• Encourage your child to practice their HTML skills by completing projects from https://projects.raspberrypi.org/en/projects and selecting 'HTML/CSS' as the software. • Encourage your child to use the BBC Bitesize information to reinforce learning on computational thinking techniques: https://www.bbc.co.uk/bitesize/guides/zgr2mp3/revision/1 and https://www.bbc.co.uk/bitesize/guides/z2m3b9q/revision/1 • Encourage your child to practice their programming skills using websites such as https://www.w3schools.com/python/ and complete projects from https://projects.raspberrypi.org/en/projects and selecting 'Python' as the software.