SUPER–CURRICULAR ACTIVITIES

Pre-GCSE: Design & Technology
Year 9

Research the story of 'cat's eyes' – the reflective markers on roads. Who was the designer? How did he come up with the idea?	Practise drawing 3D objects around your home. You could explore using oblique, isometric and perspective techniques.	Design and make a marble run using house hold items. See how far you can get the marble to roll, by using varying methods to build up momentum.
Write a 10-point specification for a product of your choice. Consider as many design factors that would have been considered for that product.	Research the term 'JIT'. What does it stand for? Who coined the term? How is it used in modern manufacture?	Choose a designer and read about their story. What inspired them? What was their career path? Do they have a famous product or piece of art work?
Watch an episode of 'How it's Made', Then share your knowledge with your Design & Technology class.	Explore the different methods of designing on the BBC bite size website Follow **Link 1** (below).	Research 'Design Models'. What are they? How can they be used in the design process?
Visit the 'Instructables' website and have a go at one of the activities. Why not join a competition on there too?! Follow **Link 2** (below)	Design a new bedroom layout using the internet to choose your new furniture and style. Create a mood board to present you chosen design.	Write creatively about different timbers. You could do this in a poster format. Where does wood come from? What is conversion and seasoning? What techniques can we use to manufacture with wood?
Read about CAD and CAM. Consider how the introduction of CAD/CAM revolutionised the manufacturing industry.	Write a short article about the importance of sustainability in our lives and considering our ecological footprint.	Take a day trip to the Design Museum in London. Explore what the latest design exhibition is. Follow **Link 3** (below)

Links to websites used in this Super-Curricular Pre-GCSE Activities sheet:

Link 1: https://www.bbc.co.uk/bitesize/guides/z6jkw6f/revision/4
Link 2: https://www.instructables.com/
Link 3: https://designmuseum.org/venue-hire-old/virtual-tour-of-the-design-museum

	Reading task		Creative task		Watching task		Student-led task
	Research task		Writing task		Listening task		Trip or visit