Design Technology Year 10

We will be learning about...

During the half term, we are going to be focus on Core knowledge and understanding of materials, their extraction, uses and properties. You will understand elements how materials are formed and how they are applied to the correct use case. Technical features, properties and the non physical properties will also be explored.

Week	Key Learning	Homework
1	Core - Metals	Seneca learning and
	 Classification of Metals and categories 	assessment on
	 Working properties and the structure of metals and alloys 	metals
	 Metal uses and case studies. 	
	 Testing metals and destructive testing 	
	Seneca learning and assessment on metals	
<u>2</u>	Core – Paper and Boards	Revision cards
	 Structure and rigidity of papers and boards 	
	 Printed pages through to Manufactured boards for furniture 	
	 Synthetic Fibres and textiles from natural sources 	
	 How technical fibres are created to solve existing problems. 	
	Revision cards	
<u>3</u>	<u>Core – Polymers</u>	Past paper exam
	 Environmental impact of extraction 	questions
	 Thermo and thermosetting characteristics 	
	 Identification codes of polymers, markings, 	
	 Use Cases and manufacturing processes 	
	Past paper exam questions	
<u>4</u>	<u>Core – Electronics</u>	Manufacturing diary
	 Circuit soldering processes. 	linked to NEA
	 Safe use of portable power tools 	
	• ASSESSMENT	
	Electronics and circuit theory with programmable flowchart	
	Manufacturing diary linked to NEA	
<u>5</u>	<u>Core – Woods</u>	Revision
	Natural woods	
	Categories of woods and features	
	Construction techniques	
	Engineered timber	
	Revision	
6	Core – Woods continued, manufactured boards	Materials summary
	Reconstituted materials	presentation
	Circular economy	p. esements
	• ASSESSMENT	
	Walking Talking Mock	
	Materials summary presentation	

Enrichment opportunities:

Students do have the option to attend catch up sessions if needed during lunchtimes or after school if they feelthey need more time and support on their practical product.

Design Technology Year 10

How can you help?

Parents can support their child in DT by talking to them about the project they are undergoing and encourage them to do their best. It is also helpful if students are provided with a quiet place to do their homework tasks.

Excellent links can be found on the internet such as

www.technologystudent.com

www.senecalearning.com

www.bbc.co.uk/bitesize/subjects then selecting Design Technology.