

Year 9 D&T - Computer Control & Smart/ Modern/ Composites

Learning Programme 1

The LORIC skill focus for his LP is: LEADERSHIP The Moral Virtues focus for this LP are: COURAGE and HUMILITY.			Literacy Non-Negotiables: • Capital letters must be used at the start of sentences and for the first letter of proper nouns • Full stops must be used at the end of a sentence • Question marks must be used at the end of a question • Apostrophes should only be used for possession or omission • Days of the week and months must be spelled correctly • Key words must be spelled correctly • Vocabulary to be taught using the Frayer model
Courage - Acting with bravery and overcoming fears. I will show courage by answering a question in class even when I'm not 100% sure of the answer. Humility - Having a modest view of oneself. I will show humility by admitting mistakes and asking for help when needed.			
What will I be learning about in this Learning Programme? How to apply computing to embed intelligence in products; how to use programmable components that respond to inputs and control outputs. How to use block-based programming language to control a buggy. The types and uses of smart, modern and composite materials. How designers use a range of design influences and tessellation to create original ideas.			
Where have I seen this learning before? In Year 8 design & technology you will have learnt about electronic systems using input, process and output components. You will have used computer aided design. You will have learnt about the sources of different materials, their types and uses. What could I use it for? You will apply your knowledge of computer control and smart and modern materials when studying the GCSE Design & Technology exam. You can also use workshop tools in your everyday life.			
In LP1.1, I will know: how computing can embed intelligence in product through the use of programmable components; that the Crumble microcontroller is a programmable component that has inputs and outputs; how to construct a crumble programmable buggy structure.	01/09/26 - (WK 1) <		

