Teaching and Learning Content: Design and Technology Year Group: 8 Half Term 4	MEADOW PARK
Table Art Embedding systems and control and Computer Aided Design and Manufacture (CAD,CAM)	SCHOOL
Home Learning: Students are expected to complete a homework research project over the half term linking to expected to be practiced at home as it will be tested in a spelling test.	their classwork. Key vocabulary is
 Key Questions: Innovation and Technology How can innovation and technology be used to transform a room of create an immersive event? Circuits What is the difference between a parallel and a serial circuit? What is an LED? How can a microprocessor be used to control a system? Design context Why is it important to establish a sound understanding of the design context? What is the relevance of developing a brief and design specification? Computer Aided Design (CAD) What are the advantages and disadvantages of using CAD? Computer Aided Manufacture (CAM) What are the advantages and disadvantages of using CAM? 	 Diagnosis Retrieval activities Mini whiteboard activities Dir whiteboard activities Teacher Demonstration DIRT tasks Peer to peer support Whole class feedback WAGOLL
 Students will: Explore enterprising ways that technology can be used to transform a room using light. Understand how circuits and microprocessors can be used in systems. Develop confidence in writing design briefs and specifications. Experiment with CAD & CAM. 	 Testing Students will be tested on the programing skills Students will write critically about the work produced