

Learning Intention	Vocab	Concept	Retrieval	Success Criteria	Hinge Questions for this lesson	Red Zone
Week 1 - Electrical and Electronic systems	Circuit Component Amps Volts Current Charge	Electrical circuits	Circuit Component Amps Volts Current Charge	I can plan the parts of a simple circuit I can organise and populate circuits I can organise and implement a sensing circuit with feedback loops	The bulb is not lighting. What will make it work? A. Add another battery B. Use a new bulb C. Close the switch D. Add more wires	Complete the worksheet task for this lesson
Week 2 - Modelling and Cad/Cam	CAD/CAM Health and safety Quality control	CAD/CAM	CAD/CAM Health and safety Quality control	I can describe why we use modelling in DT I can use appropriate CAD/ CAM in DT I can discuss the advantages and disadvantages of CAD/CAM	What is the main purpose of using CAD software in design? - To cut materials automatically - To create accurate digital drawings - To paint models with colour	Complete the worksheet task for this lesson
Week 3 - Health and safety	Safety Workshop rules PPE Responsibility	Safety in the workshop	Safety Workshop rules PPE Responsibility	I can explain the importance of health and safety in the workshop I can describe the safest way to use tools and machinery	Which action is the safest when using a saw? - Hold the wood with your hand close to the blade - Cut as fast as possible to finish quickly - Wear goggles and keep hands away from the blade	Complete the worksheet task for this lesson

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Week 4 - Practical working	Safety Tools Machines Planning	Practical learning	Safety Tools Machines Planning	I can apply health and safety rules in a practical lesson I can select and use rulers correctly I can demonstrate cutting skills with suitable equipment	What should you always do before using a machine in the workshop? - Start the machine to see how loud it is - Ask the teacher for permission - Let a friend test it first	Complete your practical work in a safe and organised manner.
Week 5 - Practical working	Safety Tools Machines Planning	Practical learning	Safety Tools Machines Planning	I can apply health and safety rules in a practical lesson I can select and use rulers correctly I can demonstrate cutting skills with suitable equipment	What is the safest way to move around the workshop? - Walk carefully and stay aware of others - Run to get tools more quickly - Push past people if they're in the way	Complete your practical work in a safe and organised manner.
Week 6 - Practical working	Safety Tools Machines Planning	Practical learning	Safety Tools Machines Planning	I can apply health and safety rules in a practical lesson I can select and use rulers correctly I can demonstrate cutting skills with suitable equipment	A student solders two wires together, but the joint is weak and breaks easily. What will fix the problem? A. Use more solder so it forms a big blob B. Heat the joint properly before adding solder	Complete your practical work in a safe and organised manner.

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					C. Hold the wires together with your fingers while soldering	
Week 7 Applying practical skills - marking and measuring	Rulers, tri - squares, mm, cm, waste	Marking and measuring in the workshop	Rulers, cm and mm, dimensions, accuracy	I can apply health and safety rules in a practical lesson I can select and use rulers and tri-squares I can indicate the waste prior to cutting wood	What is the main reason for sanding wood before applying a finish? A. To make the wood heavier B. To remove rough surfaces C. To change the colour of the wood	Proceed with your practical work and demonstrate appropriate health and safety skills and behaviours
Week 8 How to apply practical skills – Cutting tools and techniques	Cutting, shaping, saws, drills and files	Using cutting tools to produce prototypes	Tools, safety, techniques	I can apply health and safety rules in a practical lesson I can select and use appropriate cutting tools I am aware of common errors when using cutting tools	Which joining method is best for a temporary connection? A. Screws B. PVA glue C. Nails	Proceed with your practical work and demonstrate appropriate health and safety skills and behaviours