

Design Technology Year 8

Learning Intentions Summer Term 2

2024-2025

WEEK 33 wc 2 nd June	Mechanisms – Cam display project Pupils will be introduced to the principles of Mechanisms: <ul style="list-style-type: none">• What are mechanisms / why are they used?• Common types of mechanisms – Cams / linkages / ratchets / cranks
WEEK 34 wc 9 th June	Design brief and Initial ideas – Cam display project What is a design brief and why do we use them in design technology? Discuss the correct method of producing initial ideas: <ul style="list-style-type: none">• 3D sketches• Colour• Annotation Pupils to complete 2 initial ideas with accompanying annotation.
WEEK 35 wc 16 th June	Cams and Linkages Pupils will be introduced to specific cams / profiles and followers: <ul style="list-style-type: none">• Heart shaped / eccentric / snail and swash cams Pupils will develop their mechanism to achieve a specific function
WEEK 36 wc 23 rd June	Modelling in Technology / using CAD/CAM Why do we use models in Technology? The role of computer modelling and testing. How will CAD/CAM be used to produce the Cam display project? Introducing the Cad Cam plotter for developing prototypes
WEEK 37 wc 30 th June	Workshop rules / Health and Safety The importance of Health and Safety in the workshop. What kind of accidents could occur in the workshop? Understanding how to use the machines safely - guards, PPE, floor tape, emergency stops, correct clothing and emergency procedures. Workshop rules. Practical lesson Pupils will work towards practical realisation of their design ideas.
WEEK 38 wc 7 th July	Practical lesson Pupils will work towards practical realisation of their design ideas.
WEEK 39 wc 14 th July	Evaluation Review the project with the pupils. Class discussion with all the completed projects on view. Good examples and why. What improvements could others have made? All pupils to complete an evaluation work sheet to review their product and the products of others.