Holy Family Catholic School – Faculty of Maths – **Design Technology** Autumn Half-Term 2 Year 9

Learning Intention	Vocab	Concept	Retrieval	Success Criteria	Hinge Questions for this lesson	Red Zone
Wk 1 - Lesson 1 Practical lesson – CADCAM	Vac form CAD/CAM Health and safety Quality control	Applied Practical skills	Vac form CAD/CAM Health and safety Quality control	**I can** complete practical tasks **I can use** tools, equipment, and materials safely	Which of the following best describes the purpose of CAD/CAM in design and technology? A) To create designs only by hand B) To combine computer-aided design with computer-aided manufacturing C) To ensure products are always made from metal D) To eliminate the need for health and safety checks	Complete the practical task for this lesson
Wk 2 - Lesson 2 Practical lesson – Applying the design / Adding a finish	Safety Tools Equipment Accuracy Planning Focus	Applied Practical skills	Safety Tools Equipment Accuracy Planning Focus	**I can** complete practical tasks **I can use** tools, equipment, and materials safely	Why is adding a finish to a product important? A) It makes the product heavier B) It improves appearance and protects the material C) It reduces accuracy in the final product D) It removes the need for planning	Complete the practical task for this lesson

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Wk 3 - Lesson 3 Final assembly	Accuracy Planning Focus	Applied Practical skills	Accuracy Planning Focus	**I can** complete practical tasks **I can use** tools, equipment, and materials safely	What is the most important factor during final assembly? A) Speed of completion B) Accuracy and alignment of parts C) Using as many tools as possible D) Ignoring the original plan	Complete the practical task for this lesson
Wk 4 - Lesson 4 Evaluation	Review Discuss Improve Modify	Evaluation and improvement	Review Discuss Improve Modify	**I can evaluate** my own work **I can identify** improvements in my work **I can suggest** modifications to my work	Which of the following is NOT part of an effective product evaluation? A) Reviewing the product against the design brief B) Identifying areas for improvement C) Suggesting modifications D) Ignoring customer feedback	Complete a product evaluation

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Wk 5 - Lesson 5 Electrical and Electronic systems	Circuits Components Closed loops Feedback circuits	Systems and control	Circuits Components Closed loops Feedback circuits	**I can explain** the term circuit **I can identify** different parts of a circuit **I can describe** the ways circuits can be adapted for specific outcomes	What is a closed-loop system in electronics? A) A circuit that never uses feedback B) A circuit that includes feedback to control output C) A circuit that is always open D) A circuit without any components	Complete the activity
Wk 6 - Lesson 6 Design brief and Initial ideas – Glow display	Problem Brief Customer Annotation	Design skills	Problem Brief Customer Annotation	**I can explain** the term design brief **I can apply** correct presentation techniques	What is the main purpose of a design brief? A) To provide a detailed circuit diagram B) To outline the problem and customer requirements C) To show the final product only D) To replace annotations in sketches	Complete the activity

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Wk 7 - Lesson 7 Planning and modelling circuits	Circuits Components Closed loops Modelling Non destructive	Systems and control	Circuits Components Closed loops Modelling Non destructive	**I can explain** the term modelling **I can identify and use** relevant programs for circuit modelling	Why do designers use circuit modelling before building? A) To waste time before assembly B) To test ideas without damaging components C) To avoid using any software D) To make circuits less accurate	Complete the activity