Holy Family Catholic School – Faculty of Maths – **Design Technology** Autumn Half-Term 2 Year 8

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 technology? A) To create hand-drawn sketches only B) To design and manufacture products using computer systems C) To check product quality after production D) To evaluate customer feedback	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 planning important when applying a finish to a product? A) It ensures the product looks colourful B) It helps avoid mistakes and achieve accuracy C) It makes the product heavier D) It reduces the need for safety checks	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 correct alignment of parts C) Using as many tools as possible D) Adding extra decorative features	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 these is NOT part of an effective product evaluation? A) Identifying improvements B) Suggesting modifications C) Reviewing the design process D) Ignoring customer feedback	Complete a product evaluation
Wk 5 - Lesson 5 Mechanisms – Cam display project	Mechanisms Cams Linkages Motion	Mechanical movement	Mechanisms Cams Linkages Motion	**I can explain** the term mechanism **I can identify** different parts of a mechanism **I can describe** the ways to control motion	What is the main function of a cam in a mechanism? A) To store energy B) To convert rotary motion into reciprocating motion C) To hold parts together D) To reduce friction	Complete the activity

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Wk 6 - Lesson 6 Design brief and Initial ideas – Shop identity	Problem Brief Customer Annotation	Design skills	Problem Brief Customer Annotation	**I can explain** the term design brief **I can apply** correct presentation techniques	What does a design brief mainly do? A) Shows the final product design B) Explains the problem and requirements for the design C) Lists all tools needed for production D) Provides customer reviews	Complete the activity
Wk 7 - Lesson 7 Cams and linkages	Linkages Cams Followers Profiles	Mechanical movement	Linkages Cams Followers Profiles	**I can explain** the term linkages **I can identify** different parts of a linkage **I can describe** the ways to control the motion of a cam	What is the purpose of a linkage in a mechanism? A) To create electrical circuits B) To transmit motion between parts C) To store mechanical energy D) To reduce weight of the product	Complete the activity