

Year 7

CAD/CAM	How to use CAD What are key 2D CAD drawing tools? How does 3D CAD help me visualise my design? Maritime: How is CAD and CAM used in the maritime sector? Eco Futures: How can CAD and CAM make product manufacturing more environmentally friendly? What are Bioplastics and why are they better for the environment than normal plastics?
Food Technology	Welcome Aboard How can I use the kitchen to prepare ingredients and cook safely? What is the Eat Well Guide and how can i eat a balanced and healthy diet? Maritime: How can food be prepared safely in a galley kitchen on a maritime vessel? Why is planning balanced meals important for people working at sea? Eco Futures: How can we reduce food waste when preparing and cooking meals? Why is choosing seasonal and locally sourced ingredients better for the environment?
Design Technology	Wooden Box Which hand tools and machinery can I use safely to manufacture a quality product? How can I use CAD/CAM within my finished product? Maritime: How are carpenters linked with the maritime sector? Eco Futures: How can we reduce waste when manufacturing wooden products?

Year 8

CAD/CAM	CAD for CAM How can I refine my 2D CAD drawings to ensure they are suitable for CAM output? What do I need to consider when preparing my design for laser cutting or another CAM process? Maritime: How are CAM processes used in the manufacturing of vessels? Eco Futures: How can we use CAD to reduce the amount of waste when manufacturing? How can we use CAD/CAM to develop sustainable environments for our future?
Food Technology	Cooking in the galley How can I use the hob and oven safely to produce a range of cooked and baked food products? How do I know when I have a well-made and nutritious food product? Maritime: How do chefs prepare nutritious meals efficiently in a ship's galley? What challenges do cooks face when preparing food at sea? Eco Futures: How can we make cooking and baking more environmentally sustainable? How can we reduce energy use and food waste when preparing meals?
Design Technology	Automaton Which CAMS would suit different types of motion? When would it be appropriate to use different hand tools and machinery to manufacture a product? Maritime: How are mechanical systems used on maritime vessels to improve efficiency? How do moving mechanisms help solve problems in the maritime industry? Eco Futures: How can mechanisms be manufactured using fewer materials while maintaining performance?

Year 9

CAD/CAM	CAD/CAM How can I use technical drawings to assist with CAD drawings? What makes a 3D rendering effective in communicating my design? Maritime: What are the benefits if having CAD drawings in the maritime sector? What is the importance of following critical CAD dimensions in the maritime sector? Eco Futures: How can CAD and CAM develop sustainable products? What CAD and CAM methods help produce products using minimal materials?
Food Technology	Around the World What is a food group and how can I combine nutritious ingredients? How can I analyse food products and improve them? Maritime: How has maritime trade influenced the foods we eat today? How do different cultures use ingredients transported across the world by sea? Eco Futures: How can we choose ingredients that reduce environmental impact? How can food products be improved to become more sustainable?
Design Technology	Passive Amplifier How can I design and manufacture a product with a limited amount of materials? Why do we prototype when testing a design idea? Maritime: How do designers develop products that meet the needs of people working in the maritime sector? Why is the modelling and testing of prototypes important when designing products for challenging marine environments? Eco Futures: How can products be designed using minimal materials without reducing quality? How can sustainable design reduce a product's environmental impact throughout its life cycle?