

Unit Outline - Year 7 Industrial Technology and Design

YEAR LEVEL:	7	SUBJECT:	Industrial Technology and Design	UNIT NAME:	Boat and Robot
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Unit Context Overview:	By the end of Year 7, students explain factors that influence the design of products, services and environments to meet present and future needs. They explain the contribution of design and technology innovations and enterprise to society. Students explain how the features of technologies impact on designed solutions and influence design decisions for each of the prescribed technologies contexts.	Unit Length:	10 Weeks
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KEY UNIT LEARNING GOALS AND SUCCESS CRITERIA

KEY LEARNING GOALS		SUCCESS CRITERIA
1		
2		
3	LG: Understand workshop practices and associated WHS through Onguard modules.	Success Criteria (students can): <ul style="list-style-type: none"> I can identify and explain PPE I can identify and explain safety precautions I can locate Fire extinguisher, first aid box and evacuation plan'
4	LG: To accurately measure, mark out and shape a timber boat.	<ul style="list-style-type: none"> I can identify measuring and marking out tools. I can safely use measuring and marking out tools. I can transfer measurements from a working drawing to stock material.
5	LG: To safely use Hand tools and Equipment to produce a Timber Boat	<ul style="list-style-type: none"> I can identify processes and procedures to work safely I can identify the techniques and skills used to construct a timber boat.
6	LG: Identify elements of the design process	<ul style="list-style-type: none"> I can recognise elements of the design process. I can identify what an innovation is in the design process.
7	LG: Consider innovative concepts in the design process	<ul style="list-style-type: none"> I can identify an innovative design I can work independently to develop a range of sketches to support a design ide
8	LG: Consider sustainability within the design process	<ul style="list-style-type: none"> I can explain what sustainability is I can identify the importance of sustainable practice in the design process. I can use a TEEL paragraph structure to support my design ideas
9	LG: To safely use Hand tools and Equipment to produce a Timber Robot.	<ul style="list-style-type: none"> I can identify the correct hand tools for the task I can safely use basic hand tools and machinery
10	LG: To safely use Hand tools and Equipment to produce a Timber Robot.	<ul style="list-style-type: none"> I can finish of my timber robot to the specifications of my design brief I can evaluate my design.

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	Resources required: Laptop/iPad Pen (stationary as required) Notebook or printed booklet Textbook Access to Internet	Additional Resources: Eg: Enclosed leather footwear, Safety glasses,		
Week	Content Description	Sections or pages in the booklet/resource.		Assessment Details
1				
2				
3	Workshop Induction, Safety Booklet and Ongoing modules.	Safety Booklet / Parent Consent		Complete Ongoing Modules
4	Measure, mark out and start to shape a timber boat.	Timber Boat Booklet		
5	Safely use Hand tools and Equipment to produce a Timber Boat	Timber Boat Booklet		
6	Safely use Hand tools and Equipment to produce a Timber Boat	Timber Boat Booklet	working through Booklet	
7	Identify elements of the design process through Innovation and Invention Booklet	Innovation and Invention Booklet	Research ideas	Draft Timber Booklet Due
8	Consider sustainability within the design process for construction of Recycled Timber Robot	Innovation and Invention Booklet Recycled Timber Robot Booklet	Research Ideas with design ideas	Practical project due
9	Safely use Hand tools and Equipment to produce a Timber Robot.	Recycled Timber Robot Booklet	Construction of timber robot	Timber Boat and Booklet Due
10	Safely use Hand tools and Equipment to produce a Timber Robot.	Recycled Timber Robot Booklet		Recycled Timber Robot and Booklet Due