Port Moresby International School

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Owned and operated by the International Education Agency.

Unit & Assessment Outline for Students & Parents Grades 7 – 10.

Year	**2026**	Grade	8	Semester	2
Course Title	**Craft Design & Technology Foundation**				
Curriculum Taught	**IEA/PNG Curricula/Cambridge Checkpoint**				
Topics	**Safety Pocedures/Tree Stucture/Properties of timber/Timber Conversation/Design Brief/Power Tools**				

Assessment

Week	Topic(s)	Type of Task	Weighting
4/5	Safety/Tools/Materials	Unit Test 1	20%
8	Design Process	Port Folio	15%
15	Safety/Tools& Materials/Process	Unit Test 2	20%
16/17	Designing & Construction-	Practical Project	45%

Learning outcomes against which the students will be reported

- Demonstrate knowledge and understanding of safety rules, concepts, processes, and use of basic manual and portable power tools effectively.
- Demonstrate confidence and skills in the handling of basic hand tools, power tools and materials effectively.
- Recognise problems from a situation and apply knowledge and skills to produce appropriate products based on a need.
- Adequately communicate their knowledge, concepts and ideas through written and non-written modes/mediums

Course Aims/Goals

- Take a safe and active part in designing and making projects that are linked to their own interest and the community
- Adapt new technologies directly and appropriately to their environment and their own social and economic needs.
- Apply what they are learning to life and work related situations for common good

Content Outline

Weeks	Content Outline	Curriculum Links
1-2	Review: Workshop Safety Rules/Timber Structure/Classifying Trees/Cutting Tools-Files	Introducing Technology pg 5-12 and pg 98-100
3-4	Timber: Tree Growth and Structure/Clamping and Holding Tools	Introducing Technology pg 40-44 and pg 106-109
5-6	Timber: Properties of Timber/Timber Defects	Introducing Technology pg 40-44
7-8	Timber: Conversion of Timber Project Port Folio	Introducing Technology pg 48-50
9-10	What is a Design-Why design is important?/Factors to consider in design/Hand Tools/Cutting Tools/Parts and Uses of a Plane	Introducing Technology-pg 101-102
11-12	Timber: Seasoning Timber/Seasoning Defects	Introducing Technology-pg 51-52
13-14	Power Tools-Fixed Power Machines/Industrial Equipment	Introducing Technology-pg 113-120
15-16	Processes-Separating/sawing/planning/chiselling/drilling…etc.)	Introducing Technology Basil Slynko pg 128-131
17-18	Processes-Finishing (abrasives/types of finishes/finishing techniques	Introducing Technology-Basil Slynko pg 128-131
19-20	Processes-Finishing (abrasives/types of finishes/finishing techniques	Introducing Technology-Basil Slynko pg 150-153