



# CANBERRA HIGH SCHOOL - Technology Learning overview for Term 1

## Subject: 8 Exploring Technology

During Term 1, students will learn, discover and develop skills in woodwork and design. This term students will learn how to design, cut, shape and finish timber forms. Emphasis will be placed on skill development, safe and appropriate use of tools and equipment and using the design process. Work and communication will occur in class and within your child's Google Classroom page.

Week	Topic	Content/Activity/Tasks
1	Introduction and safety	Introduction to the course, safety expectations, PPE, safety features of the workshop. Safety booklet Safety tests
2	Technical drawing  Project planning	Project 1 - 3 piece puzzle. Students draw plans for puzzle, including measurements.  Students work collaboratively to create project plans.
3	Measuring/marketing out timber  Cutting and shaping	Marking out timber  Demonstration of drill press, coping saw and files to cut and shape 3 piece puzzle. Students begin cutting and shaping.
3	Cutting and shaping  Types of timber	Students continue marking out, drilling, cutting and sanding.  Theory task on types of timber - hardwood vs softwoods
4	Cutting and shaping  Project planning-cost	Continue marking out, drilling, cutting and sanding.  How to plan/cost projects using a cut list
5	Finishing techniques  Sustainable timbers	Finishing and assembling puzzle Project reflection and completion of project booklet. Renewability of timbers, environmental impacts, forestry.



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6	Design process Engineering principles.	Introduction to design process and project 2- CO2 racer. Mass, Drag, Friction. Use the design process to design and plan CO2 racer.
7	Design and Project planning	Continue to use the design process to design CO2 racer. Use project management skills (drawing plans, costing, creating construction plan) for CO2 racer project.
8	Marking out and shaping	Students begin construction of CO2 racer ( marking out design, cutting and shaping)
9	Cutting and shaping	Continue cutting, shaping and sanding of CO2 racer.