



# CANBERRA HIGH SCHOOL - Technology Learning overview for Semester 1

## Subject: 10 Design Technology

During Semester 1, students will learn, discover and develop skills in woodwork and design. This term will have an underlying theme of learning how to cut and join timber forms. Emphasis will be placed on skill development, safe and appropriate use of tools and equipment and attention to detail. Work and communication will occur in class and within your child's Google Classroom page.

Week	Topic	Content/Activity/Tasks
1	Introduction and safety  Isometric drawing	Introduction to the course, safety expectations, PPE, safety features of the workshop. Safety quizzes and tasks.  How to draw design using isometric sketches, creating material cutting lists
2	Digital portfolio creation  Eco-lamp task	How to use Google Sites to create a digital portfolio  Introduction to the Eco-lamp project  Researching designs
3	Eco-lamp task	Drawing design  Create materials and cutting list
4	Eco-lamp task	Construction of Eco-lamp task  Creating the base structure  Bending the aluminium extrusion
5	Eco-lamp task	Soldering LED lights  Oiling and finishing project



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6	Design Brief - Bridge Challenge (Group work)  Project planning and management	CIT Bridge Challenge - Design criteria Student work booklet  Drawing project plans and Technical drawing bridge to scale
7	CIT Bridge Challenge - design and construction	Begin project and prepare timber Measuring, marking out, cutting and shaping
8	CIT Bridge Challenge - construction	Cutting and joining timber
9	CIT Bridge Challenge - construction	Cutting and joining timber
10	CIT Bridge Challenge - testing and evaluation	Cutting and joining timber
11	CIT Bridge Challenge - testing and evaluation	Final adjustments
12	CIT Bridge Challenge - finish bridge and portfolio	Bridge assignment due
13	Power anchor projects	Making, testing and evaluation design projects using the Power Anchor
14	Power anchor projects	Making, testing and evaluation design projects using the Power Anchor
15	Power anchor projects	Making, testing and evaluation design projects using the Power Anchor
16	Power anchor projects	Making, testing and evaluation design projects using the Power Anchor



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17	Power anchor projects	Making, testing and evaluation design projects using the Power Anchor
18	Power anchor projects	Making, testing and evaluation design projects using the Power Anchor
19	Design Challenges	Individual and small group design challenges
20	Design Challenges	Individual and small group design challenges