

## Shirley Smith High School Vision and Values

### *Grow with us.*

*At Shirley Smith High School, teaching and learning is authentic, rigorous, and designed to maximise student agency. We align deep disciplinary knowledge and excellent pedagogical practice to ensure our learners are empowered to find their purpose, fulfil their potential, and shape their own futures.*

Students at Shirley Smith High School are:

### **Curious**

*brave and open minded inquirers with a desire to know and understand*

### **Connected**

*inclusive young people connected to each other, connected to their community and connected to Country*

### **Learners**

*creative empowered learners with boundless potential for their futures and the future of our planet*

## Subject Details

|                   |                    |                         |                     |
|-------------------|--------------------|-------------------------|---------------------|
| <b>Subject/s:</b> | Applied Technology | <b>Learning Area:</b>   | Design & Technology |
| <b>Teacher/s:</b> | Claire Pullan      | <b>Learning Period:</b> | Semester 1, 2026    |

## Engagement in Learning

In order to facilitate active engagement in their learning, students are expected to:

- Arrive prepared for their lessons, equipped with a fully charged chromebook, a notebook, a pen or pencil, and any other subject-specific materials that may be necessary.
- Independently make an effort to retrieve and complete any missed assignments or coursework due to absences or extracurricular activities during their own time.
- Embrace the principles of the school's Yindymarra wellbeing framework by treading lightly. This involves taking moments to pause, authentically connecting with others, engaging in deep listening, thoughtful reflection, and considering the impact of their actions on others.

## Learning and Assessment Policies

Please see the school website for policies regarding the submission of late work, extension requests for assessment tasks, and plagiarism and academic integrity.

## Description of Learning

### **Unit overview:**

In this Applied Technology elective, students engage in a hands-on program that combines woodwork and metalwork with a strong emphasis on the engineering design process. The unit begins with a rigorous focus on workshop safety, with students completing induction and certification through the OnGuard online training platform before accessing tools and machinery. Students develop an understanding of safe working practices, risk assessment, correct tool selection and responsible workshop behaviour, establishing the foundations required for successful practical learning.

Across the semester, students apply the design–make–appraise cycle to a series of progressively challenging projects, including a timber and metal windchime, a folded sheet metal box and a crafted metal candle holder. Through these projects, they interpret technical drawings, measure and mark out materials accurately, cut, shape, join and finish a range of materials using appropriate hand and power tools. Students refine their problem-solving skills as they prototype, test and modify their designs, evaluating functionality, durability and aesthetic qualities. Emphasis is placed on precision, craftsmanship, safe work habits and reflective evaluation, preparing students for further study in engineering, manufacturing and design technologies.

**Unit learning outcomes:**

By the end of this unit, students will demonstrate a level of achievement for the following standards:

- Explains how people design, innovate and produce products, services and environments for preferred futures
- For each of the 4 prescribed technologies contexts, explains how the features of technologies impact on design decisions, and creates designed solutions based on analysis of needs or opportunities
- Creates and adapts design ideas, processes and solutions, and justifies their decisions against developed design criteria that include sustainability
- Communicates design ideas and solutions to audiences using technical terms and graphical representation techniques, including using digital tools
- Independently and collaboratively documents and manages production processes to safely produce designed solutions

**Assessment:**

| <b>Task</b>               | <b>Approximate Due Date</b> |
|---------------------------|-----------------------------|
| - OnGuard Safety Tests    | Week 2                      |
| - Windchime and Portfolio | Week 10                     |
| - Folded Sheet Metal Box  | Week 16                     |
| - Workshop Booklet        | Week 19                     |
| - Candle Holder           | Week 20                     |
| - Class work              | Ongoing                     |

**Learning Experiences**

Throughout the unit, students may have the opportunity to engage in the following learning experiences:

**Incursions/Excursions** - N/A