Technology Mandatory 

Portfolio 

2020

Topic: Recycled Materials



Name:

# Technology Mandatory

# Through the study of Technology Mandatory, students develop the capacity for action and a critical appreciation of the processes through which technologies evolve and how they contribute to society.  Knowledge and understanding of technological content is developed through pedagogical approaches, such as project and problem-based learning. Through the production of innovative solutions to contextually relevant problems, students are provided with opportunities to use a variety of thinking strategies, embrace new concepts and learn through trialing, testing and refining ideas. The practical nature of Technology Mandatory engages students in design and production activities as they develop safe practices and refine skills working with varied materials and production technologies. These authentic learning experiences provide students with a sense of satisfaction and are the foundation for life-long learning.

**Topic Overview:**

In this topic students will learn about Textile materials, using felt to design and produce a soft toy. Students will learn about the design process as well as practical components of sewing, including hand sewing and machine sewing.

# Outcomes

**TE4-1DP** designs, communicates and evaluates innovative ideas and creative solutions to authentic problems or opportunities

**TE4-2DP** plans and manages the production of designed solutions

**TE4-3DP** selects and safely applies a broad range of tools, materials and processes in the production of quality projects

**TE4-4DP** designs algorithms for digital solutions and implements them in a general-purpose programming language

**TE4-9MA** investigates how the characteristics and properties of tools, materials and processes affect their use in designed solutions

# Tasks:

Portfolio: you are required to complete this portfolio including all aspects of the design process

Practical Task: Students will apply the design process to design and produce a quality **Recycled Project**

**The Design Process**



**Design Brief**

Design Brief- to design a soft toy that would suit a child: using the basic monster template provided.

**What do I need to do?**

Research ideas and come up with a project you could make out of recycled materials

Plan and produce your project

**Research questions**

1. What kind of projects could I make
2. How do I stick things together

Draw a picture:

Idea 1:

Idea 2:

**Design!**

What design did you choose?

Sketch your design:

Does it meet the design brief? Can you make it in class? Is it too easy/hard?

**Product Steps:**

What are the steps you took to make your project? Draw each step!

Step 1: 

Step 2:

Step 3: 



Step 4:



Step 5:



Step 6:



Step 7:

**Evaluation!!!**

What did you like most about making your project?

What did you enjoy the least?

Do you think your design worked well? Can you use it?

What new skills did you learn in this project?

If you could design another project- what would you like to make?