Resistant Materials Learning Journey

Post 16 Destinations

Apprenticeship

University

A Levels

Responding to a client brief

External Assessment

Component 2

Destinations

Independent learning
Commitment
Motivation

KS4 – Resistant Materials

REVISE

Practising skills

Demonstrate technical skills

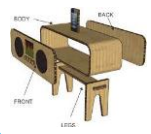
Exploring ideas

Working within timescales

YEAR 11

Component 2 mock

Practical skills



Component 1 Internal assessment

Analysis

Working to a context

Experimenting and testing with resistant materials

KS4 – Resistant Materials

In Year 10 students build knowledge, understanding and skills through the BTEC Art & Design in Practice

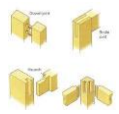
Artist/cultural research

A Use investigation and experimentation processes in art and design practice

Interpreting ideas

C Develop practical skills through application and review

Construction methods



Developing skills

Responsive reading

Understanding quality

YEAR 10

Research - artist and designers

Exploring ideas / product designing

Developing techniques

Exploring materials

Wide range of different media to develop skills

Mindmaps, spider diagrams and moodboards

B Generate and communicate art and design ideas

Drawing techniques

CAD

Product designers

D Record and communicate skills development.

Deepen your understanding of DT in the world

BTEC Art & Design in Practice: Resistant Materials

After choosing your options in year 8, focus on BTEC Tech awards in years 9,10 – 11, through exciting, practical projects.

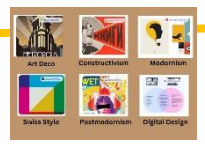
Testing the final product

Reflection and evaluation

How could I improve?

KS3 – BTEC Art & Design in Practice: Resistant Materials

What can I do to improve?



What need skills did you develop?

Project work

Construction techniques

Investigation into artists & designers

Colour Theory & Mark Making

YEAR 9

Can you make an accurate product using the skills you learnt during the other practical activities?

What new skills am I going to learn?

Design movement through the centuries

moodboards

Overcoming problems

KS3 – Resistant Materials

Work in depth on projects, homing into your practical skills, improving your resilience & problem solving whilst developing independence in the workshop

Working with manufactured boards.

What is a specification?

Why is it important?

Understanding the difference between natural and manufactured boards

Evaluation

Improvements and modifications

YEAR 8

Materials

Speciation and Design development

Materials, processes and techniques

What is the 4 x 4 technique?

How does a design team work?

Chiselling

PVA

Vacuum forming

Different types of drilling machines

Production plans

Introduction to hand tools

Hand Tools

Different types of saws, shaping tools, pillar drill

KS3 – Resistant Materials

Understanding the design brief

Design brief, Designing

How do you develop ideas?

Grain direction

Sustainability

Experience a wide range of fun and exciting projects that teach you valuable skills in the workshop, understanding different materials and how they work.

What makes a good tealight holder?

Final idea

Testing softwood

Natural timbers Tealight project

Introduction to the workshop

Baseline assessment

YEAR 7

Characteristics of softwood

Materials
Wood classification.
Where does timber come from?

Health and safety

What do you already know in about DT?