



Learning journey map

Key stage 2 Design and Technology

Exploring Structures (Mini Project).

Recalling knowledge from Y5 on strengthening structures.
Recalling teamworking skills from Y5.
Testing and evaluating.

Making Products

Recall knowledge of applying surface design.
Recall knowledge of cutting and shaping.
Continuous evaluation and adaption of final product.
Joining and assembling parts.

Year
7

CAD

Creating our final designs.
Exploring circuits.

Design

Drawing to scale.
Recalling basic design layout from Y5.
Development of drawing skills.
Analysing designs against a specification.

1:1

Evaluating our Work

Recall of evaluation skills from Y5.
Understand that we are continuously evaluating our work.
Diary of making.

Health and Safety

Re-cap of safe use of tools and equipment reviewing Y5 knowledge.
Reminding ourselves of safe behaviors in specialist classrooms.

Design Brief & Specification

Analysing the brief and thinking about what research we need.

Research

Understanding design influences and how we can use them in our own design work.
What are the needs of our customers?

Mechanisms

Cams, levers and linkages.
Exploring how mechanisms work.

Year
6

Use of CAD (Mini Project)

What is CAD?
How does it help us as designers?
Basic CAD skills.

Making Products

Working safely with tools and equipment.
What makes a high-quality product?
Developing making skills.
Using templates.

Design Skills

Design layout and basic drawing skills.
Annotation of designs.
How do we communicate our ideas?
Creating a final design.

Understanding Simple Circuits

Understanding symbols
Drawing a simple circuit
Using switches

SAFETY

Health and Safety
Introduction to the specialist rooms.
Understanding of how to use tools and equipment safely.
Setting expectations for safe behaviors.

Understanding Structures (Mini Project).

How do we strengthen structures?
What makes a good structure?
Using teamwork to solve problems.

Evaluating our Work

What has worked well with our projects and what could we improve?
Evaluating the work of others.
Diary of making.

Design Development

Reviewing ideas and thinking about customer needs.
Making decisions about suitable materials.
Checking ideas against the Design Brief.

What is a design Brief?

Knowing what a brief is.
Knowing why we use it.
Knowing the Design Brief for our projects.

Year
5

Year
4

welcome

➤ Building on previous skills in First Schools

Churnet Views Design and Technology curriculum:

At Churnet View Middle school, Design & Technology provides ALL pupils with the opportunity to enjoy and realise success through their creative, practical, technical and artistic skills.

The curriculum is broken down into four main areas:

- Research
- Design
- Make
- Evaluate

All tasks and skills are covered over the year within either Materials Technology or Graphic Products.

Through these, pupils are guided through a range of skills and techniques across several specialist learning spaces, allowing them to build their knowledge as they progress through the school.

KS3 Design and Technology

curriculum intents: Our years 7 and 8 Key Stage 3 curriculum is based upon students using their already acquired skills from Key Stage 2 to develop their creative, technical and practical skills to be able to work confidently and independently in an increasingly technical world. We aim for them to become responsible, competent, confident, safe and creative users of tools and equipment. By now their skills in reflecting and refining their work will be confident and assured. Throughout these 2 years students will acquire a broad range of subject knowledge and draw on additional disciplines such as mathematics, science, computing and art. These skills will equip them for the requirements of year 9 and GCSE Design and Technology.

KS2 Design and Technology curriculum intents:

Our years 5 and 6 Key Stage 2 curriculum is based upon students understanding how to be safe in the specialist classrooms and develop an understanding of tools, equipment, materials and techniques.

Students will be taught how to plan the making of a product through annotated sketches, design and make small products, and evaluate their own success and the success of others.

They will learn the fundamentals of working with different materials such as wood, plastic and metals, as well as using technology to create and design their products.

Students will be taught to reflect and refine their work throughout the projects they complete.