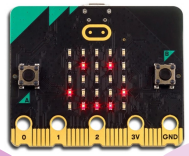
D&T Curriculum Map (Year 7)

[2022 – 2023]



Year 7 – Term 3

End of Unit Assessment

Prototyping
To understand the term prototyping and make a prototype

Designing a product
Design a product that includes the micro:bit

Understanding User Needs
To be able to understand how a product needs to meet the needs of the user

Understanding programming
Be able to demonstrate how coding works and programme a micro:bit

What is Micro:bit?
To be able to explain what coding is and how this can be used

End of Unit Assessment

Year 7 – Term 2

End of Unit Assessment

Designing strategies
To learn about different strategies to design

Designer research and analysis
Research a range of designers and analyse their work

What is Eco-Friendly?
To understand the term eco-design and how this can be used with buildings

Elevation Drawings
To understand what elevation drawings are and how they used

Responding creatively to a brief
Understand the design brief and design a creative outcome

Using CAD to design floor plans
Be able to use CAD to design a floor plan

Year 7 – Term 1

Smart & Modern materials
Knowledge about metals and make smart and materials

Polymers & Vacuum forming
Knowledge about polymers and thermoforming processes including vacuum forming

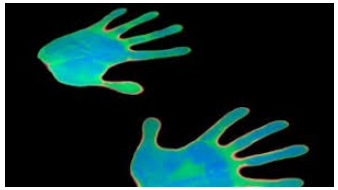
Metals & Dog tag
Knowledge about metals and make a dog tag with letters

Biomimicry
Knowledge about biomimicry and design and make a keyring inspired by nature

Timbers and Desk Tidy
Knowledge about timbers and make a desk tidy using softwoods

Baseline Assessment

Introduction to making and drawing
Students learn how to measure, mark and cut a range of shapes to gain a skills license. Drawing techniques



KS3 Key Concept

Design, Make, Evaluate & Knowledge