# D&T Curriculum Map (Year 9)

[2022 - 2023]

**End of Unit** Assessment

# Prototyping

To understand the term prototyping and make a prototype

#### Environmenta Issues

To understand how building impact the environment

# **Revit Skills**

To develop skills using CAD using Revit

# **RVT** Designing Skills

Further develop skills to design a building using old shipping containers

#### Shipping Container

Shipping container project. Developing card modelling



**End of Unit** Assessment

Properties of Metals

To learn about key terms for the properties of materials

**End of Unit** Assessment

Analyse and design a bottle opener

### Design a bottle opener

Year 8 - Term 3

#### Engineering Drawings

To understand the term engineering drawings including orthographic. Be able to draw a simple drawing

### Production plan

To understand what a production is and write a plan of how to make a product

#### eveloping meta working skills

Further develop practical skills using more complex tools and equipment

#### Scales of production

Be able to explain different scales of production



Year 8 - Term 2

General tolerance DIN ISO 2768 -medium. Deburr and break storp edges Q.1..Q.3mm. Scratches and dents are not accentable.



# Using 3D CAD Thermoforming Processes

Knowledge about different thermoforming processes

# **Phone Stand**

Design context to design and make a flat pack phone stand for

#### Polymers & Vacuum forming

Further knowledge about vacuum forming and polymers to create a base for the mood

#### CAD CAM

Further develop skills using CAD CAM to develop a laser cut mood light

#### Mood Light

Students to analyse and design a mood light for a specific target audience

Year 8 - Term 1

# KS3 Key Concept

Design, Make, Evaluate & Knowledge