

DT * students work on a carousel in order to study multiple aspects of Design Technology and so may not be taught these topics in this order. Practical skills may be amended due to Covid restrictions.

Module 1

Subject: DT
Topic Title: Design skills & processes
Brief Summary of Content Studied: Students will develop design skills to be able to create realistic sketches using both 1 and point perspective. They will conduct research and exploration to understand and identify users needs. Develop and communicate design ideas, sketches, plans & models.
Knowledge Organiser: https://docs.google.com/presentation/d/1UHVFhZHPfCrJyGwhAv-ZO0gtTmbljzzpm1jKOMNMvcl/edit?usp=sharing

Module 2

Subject: DT
Topic Title: Structures and Forces
Brief Summary of Content Studied: Using the properties of materials and the performance of structural elements to achieve working solutions to modern problems. This will be developed by looking at the work of others (architects) to design structures e.g. bridges/ buildings
Knowledge Organiser: https://docs.google.com/presentation/d/1tSW5mq3e_wbuh_3eHwXd8pT0Tdlu4ScO8dr85wtd3ik/edit?usp=sharing

Module 3

Subject: DT
Topic Title: Food Science- Heat Transfer and Cooking Methods
Brief Summary of Content Studied: Students will select from and use wider, more complex range of materials, components and ingredients, taking into account their properties to create savory dishes using a range of techniques. Students will also look at dietary restrictions due to health, cultures and religions.
Knowledge Organiser: https://drive.google.com/file/d/1qiMaAqDPCM68hIrFkfrWrW7q3KbQCJ2N/view?usp=sharing

Module 4

Subject: DT
Topic Title: Food Science- Raising Agents
Brief Summary of Content Studied: Cook a repertoire of predominantly savory dishes so that they are able to feed themselves and others a health varied diet. Become competent in a range of cooking techniques
Knowledge Organiser: https://drive.google.com/file/d/1qiMaAqDPCM68hIrFkfrWrW7q3KbQCJ2N/view?usp=sharing

Module 5

Subject: DT
Topic Title: Materials investigation
Brief Summary of Content Studied: Different materials respond in different ways to varying manufacturing processes. Students will explore (through practical tasks) a variety of materials and processes e.g. line bending, vacuum forming to analyse the outcomes and identify suitable uses for everyday items.
Knowledge Organiser: https://drive.google.com/file/d/1VRpNgIR3YE3O6NXtgZ689mk3klt5cNV-/view?usp=sharing

Module 6

Subject: DT
Topic Title: CAM modelling
Brief Summary of Content Studied: Students will develop CAD knowledge enabling them to create products created through CAM (computer aided manufacturing) using machinery such as; laser cutters, 3D printers and vinyl cutters. Students will be expected to create products that suit the given brief but also show their own individuality.
Knowledge Organiser: https://drive.google.com/file/d/1rcJT8_0viSqBY5JAfwSF5qJ0zMolOrCl/view?usp=sharing