



## Design Technology Curriculum Road Map



### Intent

- To actively contribute to the creativity, culture, wealth and well-being of myself, my community and my nation
- To develop a critical understanding of the impact of design and technology on daily life and the wider world
- To develop and apply value judgements of an aesthetic, economic, moral, social, and technical nature both in my own designing and when evaluating the work of others

### In Year 11...

- I will be completing controlled assessment drafting, finalising the brief, researching and developing the specification criteria for the project
- I will use my previous skills and knowledge of ACCESS FM to develop initial ideas, analyse existing products and develop ideas to create the final idea.
- I will plan for production, mark out materials and manufacture components using various techniques and tools, progressing on skills that I have already developed

### In Year 10...

- I will use paper, boards, tools and components to create scaled productions of prototypes of various mechanisms
- I will research polymer properties and types, composites and smart materials which will enable me to suggest design improvements using various materials
- I will be using the printing processes, joining, finishing products.
- I will build on my previous knowledge and use of metal, glass and wood.

### In Year 9...

- I will understand the different cutting, shaping and joining techniques and processes.
- I will research the different types of advertising.
- I will use digital graphics in design, applying software techniques to create advertisements.
- I will use CAD to manufacture physical models, assembling components and evaluate products.

### In Year 8...

- I will demonstrate an understanding of perspective and orthographic drawings, design and measurements.
- I will carry out research, working to a scale producing models and using materials
- I will create scale models using a variety of materials and techniques
- I will critically evaluate the final product and make suggested improvements

### In Year 7...

- I will research and develop my knowledge on Colour theory, successful logos, logo development and CAD
- I will use software to create a logo and graphics features used in packaging
- I will manufacture Different packaging, creating 3D shapes from nets
- I will manufacture packaging designs with the consumer in mind

