

Technology

Technology at Dean Trust Ardwick is split into two different subject areas; design and technology (D&T) and food preparation and nutrition (FP&N). During each academic year in Key Stage 3, pupils will experience a balanced curriculum where weekly lessons are split equally between theory and practical. Pupils will participate in a range of engaging projects to develop an understanding of core theory and practical skills through four main areas:

1. **Research:** Projects will develop a range of research and exploration skills, such as the study of different design influences to identify and understand user needs working from a variety of briefs.
2. **Design:** Pupils will utilise their research to communicate design ideas using annotated sketches, detailed plans, 3-D and mathematical modelling and computer-based tools (such as Google SketchUp and 2D Design).
3. **Making:** Projects will develop pupils' abilities to select from and use specialist tools, techniques, processes, equipment and machinery precisely, including computer-aided manufacture using the laser cutter and engraving machine.
4. **Evaluating:** Pupils will test, evaluate and refine their ideas and products against their specifications, taking into account the views of intended users and other interested groups such as their peers and family.

Year 7

At the start of Year 7 pupils will complete two baseline projects in D&T and FP&N. Pupils will study core theory enabling them to complete practical lessons safely. Pupils will learn workshop and kitchen safety whilst making a variety of products such as apple crumble and a desk tidy. During the Spring and Summer term, pupils will begin to further develop their knowledge and skills in FP&N by completing a project focused around healthy eating, they will also develop their computer aided design and manufacturing skills by completing a clock project.

Year 8

In Year 8 pupils will continue to develop their skills in the workshop and kitchen by completing a term long project in each discipline. Pupils will participate in three projects; the desk light, sketchbook cover and food provenance. The desk light project is based the workshop where pupils work to a brief, designing and producing the final outcome using laser cutter. Food provenance supports pupils understanding of where food comes from and how it gets to our plates. The sketchbook cover is a textiles based project, pupils will begin to develop their embellishment, fabric dying and sewing skills onto a piece of cotton.

Year 9

In Year 9 pupils will design and create a speaker using a range of materials and machines, including developing their soldering skills. The speaker case will be produced using Serif DrawPlus X5 and the laser cutter. In FP&N, pupils develop an understanding of the food choices consumers make; pupils will also continue to develop their practical skills in preparation for Key Stage 4. During the year, pupils will complete a project homework based on formal drawing techniques e.g one point perspective, two point perspective and exploded view.

Extra-Curricular

Technology offers pupils a variety of extra-curricular clubs to attend in each subject area. Pupils are able to develop their skills in depth and apply a more detailed personal touch to their work. Furthermore, pupils are invited to enter 'The Great Ardwick Bake Off' competition that runs in the Spring Term.