**Intent**

At Belvue, we aim to make our students aware of ‘design’ and ‘technology’, and that they can actively engage in both; we look beyond learning disabilities to enable access for our students. Where design normally precedes manufacture, at Belvue we interpret this to mean ‘being within the practical process.’ For those who are unable to conceptualise or pre-plan, the design process is just about participating, exploring, making, and evaluating. At Belvue, ‘technology’ refers to broad range of traditional and modern tools, equipment, and machine, but encompasses improvised tools and processes that a student may devise.

Creativity and enjoyment are at the heart of our Design and Technology curriculum. We empower our students’ learning through exploration, play, making, drawing, communication, building and deconstructing. Through diverse creative projects, students will experience a wide range of practical life skills and acquire knowledge. They will work with different processes, materials, and tools, and are encouraged to suggest their own ideas. We try to adapt processes and tools to enable students to achieve whilst recognising the importance of failure; we celebrate both.

By the time our students leave us, we hope that they will have improved their practical, independence, and organisational skills. Above all, we hope that they will take pleasure and satisfaction from making and creativity.

**Overview**

At KS5 there are differing pathways designed to support independence, time management, health and safety, collaborative working and employability skills. Students are supported in developing and securing their previously acquired skills and knowledge to inform and support with future employability or increased independent living by undertaking projects such as Producing a Timber Product, Developing home improvement skills (Tilling, painting and decorating, upcycling furniture) and enterprise projects. Students follow the syllabus as advised by BTEC and can achieve accreditations in:

* E1 E2 BTEC Skills for life
* E3 BTEC Construction Award



Design and Technology

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| KS5 | Year 1 | Year 2 |
| **Pathway 1** | ***CAD/CAM – Mini enterprise*** | ***Engage in a creative group project*** |
| **Overview** | Engage in a range of textile processes in order to design and manufacture a textile product for an end user   * sewing and embroidery * applique * embellishment techniques * upcycling * development of Sewing machine skills * CAD/CAM * Photographing and Evaluating | Engage in a range of traditional woodworking and computer aided design process to design and manufacture a moveable product   * Woodworking process * CAD/CAM * Disassembly and assembly of products * Marking out and cutting using Coping saw, Tenon saw and Hegner saw * Finishing skills using PVA glue and wood filler, hand file, Glass paper and Sanding machine * Photographing and Evaluation |
| **Pathway 2** | ***Producing a timber product*** | ***Developing home improvement skills*** |
|  | To engage with woodworking materials, techniques and processes to produce a three dimensional timber product.   * Know the hand tools, materials, fixings and personal protective equipment (PPE) used in basic woodworking processes * Be able to apply safe working practices to produce a three dimensional timber product * Be able to work responsibly with others * Be able to seek and respond to guidance when working as part of a team | To engage with home improvement tasks including materials, resources, techniques and processes to develop knowledge and skills for simple home improvement tasks   * Know the hand tools used in home improvement tasks * Know the materials, components and fixings used in home improvement task * Be able to apply safe working practices to perform home improvement tasks * Be able to work responsibly with others and seek and respond to guidance when working as part of a team |



Design and Technology





