

St. Aidan's Catholic Academy

Key Learning Concept for Design Technology Year 8

Topic	Emerging 1 and 2	Developing 3 and 4	Secure 5 and 6	Mastering 7 and 8
Autumn 1 Careers in DT Structures	Can write one good and one bad point about a picture I have collected. Understands that a bridge is a structure. Can design a simple bridge structure.	Can write one good and one bad point about each of the pictures that I have collected. Can explain what a structure is. Can design a range of effective bridge designs.	Can write good and bad points about images that are relevant to my task. Can explain in detail what a structure is and triangulation Can talk about my ideas with my teacher and explain the reason behind the design.	Can explain how the images I have sourced could be used in my design. Can explain a structure, triangulation, ties and struts in detail. My decision-making is based on sound knowledge gained from my research - in particular physical properties and working characteristics.
Autumn 2 Bridge builder	Is aware of possible problems with my designs and explain how I might overcome them. Can work with some independence during my practical work.	Is aware of possible problems with my designs and I can make improvements to the design. Can work mainly independently during my practical work.	Can design and develop ideas by using a variety of information sources. Can work independently during my practical work.	Can draw on and use many sources of information to creatively develop my ideas. Can work very independently throughout the practical work.
Spring 1 Timber and wood joints	Can, with help, make jointed sides with limited accuracy.	Can make jointed sides with some accuracy.	Can make jointed sides with accuracy and show one skill.	Can make jointed sides accurately and show more than one skill.
Spring 2 Box project and CAD CAM	Can write a design specification which reflects my research. Can, with help, make a product which has limited accuracy and works.	Can write a design specification which reflects most of the findings of my research. Can make a product which uses one skill with some accuracy.	Can write a design specification which identifies most key aspects needed to develop a range of design ideas. Can make a product which has some accuracy in parts.	Can write a design specification which fully reflects the findings of my research and leads to a detailed list of success criteria. Can make a product which is accurate.
Summer 1 Box project making	My development uses a mixture of sketches and labels to tell the teacher about the materials and sizes. Can identify one quality check for my practical work.	I can present my development work nearly using 2D/3D drawings. Can identify at least two quality checks for my practical work.	I can make ideas/developments clear using drawings, discussion and modelling, showing an understanding of costs and peoples' tastes. Can identify quality check stages in my work before I make it.	My final development shows all final details including dimensions, materials, colour, images and processes, and meets all of my specification points. Can apply quality checks during the making of my product.

Summer 2 Box project making	Can make a product which is mostly finished and uses at least one skill Can say if I was successful or unsuccessful.	Can make a product which has a good level of demand in some parts Can identify a way of making my work look and work better.	Can make a product which has a very good level of making Can use my specification to base my reflection on and suggest modifications.	Can make a product which has an outstanding, shop-quality level of accuracy in its making and finishing Can identify a broad range of criteria for evaluating my product.
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Half Term	Assessment Tasks
Autumn 1	Formative assessment task. Front cover of Structures project. Lesson one – focus on lettering, image and use of colour. Research, detailed analysis of structures and bridges.
Autumn 2	Bridge project (practical).
Spring 1	Test on structures.
Spring 2	Practical outcome.
Summer 1	Practical outcome
Summer 2	Practical outcome.