

St. Aidan's Catholic Academy

Y9 Design Technology

Term	Curriculum Content	Suggest Reading or Extension Activities
Autumn 1	Bird feeder An introduction to the first stages of the design process including writing a design brief, drawing ideas and how to present a final idea. Students then build their chosen design.	Students will require drawing equipment. This includes some good quality drawing and colouring pencils and basic drawing equipment such as a compass, set squares and a protractor. These can then be used at home to practice techniques.
Autumn 2	Materials and origins Looking into how different raw materials are made. This will include their origin, if they are finite and if they are recyclable.	AQA GCSE (9-1) Design & Technology: All Material Categories and Systems. Author: Bryan Williams. ISBN-10: 1510401083
Spring 1	Joints and joining Looking at different ways materials are joined together including joints, knock down fittings, and permanent and temporary fittings.	AQA GCSE (9-1) Design & Technology: All Material Categories and Systems. Author: Bryan Williams. ISBN-10: 1510401083
Spring 2	Design history Looking at the work of AQA approved designers, architects and companies.	AQA GCSE (9-1) Design & Technology: All Material Categories and Systems. Author: Bryan Williams. ISBN-10: 1510401083
Summer 1	Pewter casting and laser cutting Design a logo which can be made in colour in acrylic and also cast in pewter.	AQA GCSE (9-1) Design & Technology: All Material Categories and Systems. Author: Bryan Williams. ISBN-10: 1510401083
Summer 2	The environment Investigate the impact design and products have on the environment both directly and indirectly.	AQA GCSE (9-1) Design & Technology: All Material Categories and Systems. Author: Bryan Williams. ISBN-10: 1510401083

Term	Assessment Tasks
Autumn 1	A complete bird feeder with suitable finish. A folder of work which includes a design brief, initial ideas and final idea.
Autumn 2	An investigation into common materials used to build products and where they come from. A written exam will be used to check understanding.
Spring 1	Students build a small wooden box which incorporates 3 different wood joints and a lid which can be hinged or uses a friction fit.
Spring 2	Students investigate a specific designer, architect or company. They produce a powerpoint and script, and deliver a short lecture to the rest of the class. A question and answer session will follow the presentation.
Summer 1	Using CAD/CAM, students will design a logo suitable to be laser cut and made from acrylic. The same design will be used to make a mould to cast the logo in pewter. Assessment is through completed logo's, moulds and CAD work.
Summer 2	An investigation into how products and services affect the environment. Assessment will be via a written exam.

Parents /Carers can help their child by:	Checking what homework has been given, checking it has been done and reading through it when complete. Supplying students with drawing and writing equipment would be beneficial. This includes some good quality drawing and colouring pencils and basic drawing equipment such as a compass, set squares and a protractor.
Useful websites	http://www.technologystudent.com/ http://www.bbc.co.uk/schools/gcsebitesize/design/
Revision Sources	http://www.technologystudent.com/ http://www.bbc.co.uk/schools/gcsebitesize/design/
Extra Curricula Activities	Practice shaping materials if facilities are available at home. Practice drawing techniques covered in lessons.

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