



THE ARNEWOOD SCHOOL

KEY STAGE 4 3D Design



Implementation

Students will build on their existing skills learnt in KS3 to complete higher skill level projects while exploring a number of different designers and design eras. Students will learn how to take an individual approach to their problem solving, designing and making.

AQA 3D Design - [AQA specification](#)

Year 9

Term	Curriculum focus	Landmark Assessment
Autumn 1	Students will be introduced to a variety of different wood working joints. They will be researching and producing a research portfolio on the work, creative practices and designers of the Edo Era.	The completion of the 4-joint sample frame. A research body of work on the Edo era.
Autumn 2	Students will be introduced to CAD/CAM and learn different aspects of the program 2D design. This will result in the designing and making of a Japanese Lamp using their woodwork and CAD/CAM skills and inspiration from the Edo Era.	A completed wooden Japanese lamp with a supporting design folder.
Spring 1	Students will be introduced to a variety of printing and dying techniques, hand embroidery and machine stitching. Using these techniques students will be creating a number of responses to the work of Alexander McQueen.	A folder of sample prints and stitches, and responses to Alexander McQueen.
Spring 2	Students will be researching into the patterns and iconic imagery of Alexander McQueen. Students will be constructing an Alexander McQueen inspired tote bag using different printing techniques and hand and machine embroidery.	A design and research folder and completed Alexander McQueen inspired tote bag.
Summer 1	Students will learn different Paper folding and cutting techniques both by hand and by CAD/CAM. Students will be looking at the works of Naomi J Kendall and Zim and Zou and creating a number of responses to the works of these designers.	A number of designer responses and research portfolio.





Summer 2	Students will be designing and constructing a shadow light box inspired by designers Raya Sader Bujana and Nahoko Kojima. Students will use combined skills from previous projects over the year such as CAD/CAM and woodwork.	A shadow box final piece and a design portfolio.
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Co-Curricular: - Students will have the opportunity to attend a Design and Technology afterschool workshop with students from BTEC Construction where they will experience working as a team and problem solving as well as gaining extra experience in wood work.

Year 10:

Half term	Curriculum focus	Landmark assessment
Autumn 1	Students will be conducting experiments into different materials and their purposes while responding to a number of different designers and their techniques, building on skills from their projects in year 9.	A folder evidencing responses and research of 3 different designers, materials and techniques.
Autumn 2	Students will be conducting experiments into different design techniques through-out history and their purposes while responding to a number of different designers and their techniques, building on skills from their projects in year 9.	A folder evidencing responses and research of 3 different designers, materials and techniques.
Spring 1	Students will be developing their practical workshop skills further with a woodwork project making a ukulele. They will be using a variety of different workshop tools and materials. Students will be studying a variety of artists to inspire the finish on their final piece ukulele.	A making diary, research folder and final ukulele made piece.
Spring 2	Students will be continuing to develop their practical workshop skills further by completing their ukulele project. They will be using a variety of different workshop tools and materials. Students will be keeping a making diary detailing different skills and techniques that they have used through-out the project.	A making diary, research folder and final ukulele made piece.
Summer 1	Component 1. Students will be given a context where they will need to plan, research and make a product. Students will analyse their context and develop ideas through investigations.	A portfolio that in total shows coverage of the four assessment objectives.
Summer 2	Continuation of Component 1. Students will be given a context where they will need to plan, research and make a product. Students will investigate a number of designers and	A portfolio that in total shows coverage of the four assessment objectives.





	techniques and conduct research both primary and secondary. They will develop ideas through experimentation.	
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Co-Curricular: Students will be looking at designers through history and how different design eras have influenced the arts and designs of today's world.

Year 11

Half term	Curriculum focus	Landmark assessment
Autumn 1	Continuation of Component 1. Students will be given a context where they will need to plan, research and make a product. Students will develop ideas through designing and modelling.	A portfolio that in total shows coverage of the four assessment objectives.
Autumn 2	Continuation of Component 1. Students will be given a context where they will need to plan, research, develop, make and evaluate a product. Students will make and evaluate their final product.	A portfolio that in total shows coverage of the four assessment objectives.
Spring 1	Students will begin Component 2: An externally set context which students must plan, research and develop a product. Students will analyse their context and develop ideas through investigations.	A portfolio that in total shows coverage of the four assessment objectives.
Spring 2	Component 2: An externally set context which students must plan, research and develop a product. Students will investigate a number of designers and techniques and conduct research both primary and secondary. They will develop ideas through experimentation.	A portfolio that in total shows coverage of the four assessment objectives.
Summer 1	Component 2: An externally set context which students must plan, research and develop a product. Students will develop ideas through designing and modelling.	A portfolio that in total shows coverage of the four assessment objectives.
Summer 2	Students will undergo the 10-hour making exam they have been preparing for over the last two terms.	A 10-hour making exam.

