

Overview	AQA GCSE Design and Technology allows students to study core technical and designing and making principles, including a broad range of design processes, materials techniques and equipment. They will also have the opportunity to study specialist technical principles in greater depth.									
	You can find out about all our Design and Technology qualifications at <u>aqa.org.uk/designandtechnology</u> Theory resources endorsed through <u>PGOnline</u>									
Year 10	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2				
Торіс	Unit 3 Materials and Working Properties	Unit 4 Common specialist technical principles	Unit 7 Making Principles	Unit 5 Specialist Materials - Polymers and Timbers	Unit 1 New and emerging technologies	Unit 2 Energy, materials systems and devices				
Knowledge	Papers and Boards Natural and Manufactured timbers Metals and Alloys Polymers Textiles	Forces and stresses on materials and objects Improving functionality Ecological and social footprint The six R's Scales of production	Selection of materials and components Tolerances and allowances Material management and marking out Specialist tools, equipment, techniques and processes Surface treatments and finishes	Polymers Sources,origins and properties Working with polymer based materials and fixings Commercial manufacturing and quality control Timbers Sources,origins and properties Working with timber based materials and fixings Commercial manufacturing surface treatments and finishes	Industry and enterprise Sustainability and the environment People, culture and society Production techniques and systems Informing design decisions	Energy generation Energy storage Modern materials Smart materials Composite materials and technical textiles Systems approach to designing Electronic systems processing Mechanical devices				

	Theory skills in Materials and their working properties	Theory skills in Common specialist technical principles Practical Skills	Theory skills in Making Principles	Theory skills in Specialist Materials - Polymers and Timbers	Theory skills in New and emerging technologies	Theory skills in Energy, materials systems and devices
Skills	Practical Skills Clock Project - mini NEA Research Analysis Exploring Designing	Clock Project - mini NEA Making Evaluating	Practical Skills Storage Project - mini NEA Research Analysis Exploring Designing	Practical Skills Storage Project - mini NEA Making Evaluating	Practical Skills Display Stand Project - mini NEA Research Analysis Exploring Designing	Practical Skills Display Stand Project - mini NEA Making Evaluating