Year 11 Revision Schedule 2025-26

D & T Exam 10th June am (2hr)

Subject/Course:	GCSE DT AQA
Student Name:	

		Topic	Key knowledge/skills/questions	Resources/activities/links
Week 1	**Monday 23rd February**	(From Week 1) Materials Properties of materials Electronics Motions	(From Week 1) Textiles - Conductive textiles, Kevlar and Micro encapsulation Metals – Aluminium, Copper and Iron Paper types – Bleed Proof, Cartridge and Layout. Thermoplastics – HDPE, Acrylic and Polypropylene. Timbers – MDF, Plywood and Chipboard. Material properties. Electronics – Output devices. Motions types and linkages. Find out: What are the properties, example uses and advantages/disadvantages of the above?	(From Week 1) BBC bitesize for AQA D&T website: https://www.bbc.co.uk/bitesize/subjects/zvg4d2p PG online Clear revise book with mini tests: https://www.pgonline.co.uk/resources/design-and-technology/gcse-aqa/clearrevise-8552/ Pages: Materials and properties 30-39. Electronics 22. Motions 24. Mr.Ridley YouTube videos. Includes great explanations of D&T concepts/topics to help understanding. https://www.youtube.com/@mrridleydesigntechnology For all else and extending knowledge further (Hinterland) Search on here. This has everything! https://www.technologystudent.com/

Week 2	**Monday 2nd March**	(From Week 2) Processes Forces Sustainability Maths	(From Week 2) Processes - Laser cutting, Vacuum forming and die cutting. Forces such as, tension, compression, bending, torsion, shear. Carbon Footprint and lifecycle of products. Calculation of length of edges, circumference, angles and area.	(From Week 2) PG online Clear revise book: Pages: Processes 130, 79, 60. Forces 44. Life cycle 51. Carbon footprint 48. Maths, areas: https://www.bbc.co.uk/bitesize/topics/z8bksg8 https://www.bbc.co.uk/bitesize/guides/zbstng8/revision/1
Week 3	**Monday 9th March**	(From Week 3) CAD Manufacturing Drawing skills (From Week 4) Deforestation Evaluation	(From Week 3) What is CAD and the Advantages and Disadvantages of using it? What is a Datum? Drawing – Isometric, exploded and orthographic drawings. What do each show? What are each useful for? (From Week 4) Prototypes – what are they and what can we learn from making them?	(From Week 3) PG online Clear revise book: Pages: CAD 10, 125. Datum 106, Drawing 122-125. Drawing skills focus: https://www.bbc.co.uk/bitesize/guides/z6jkw6f/revision/1 (From Week 4) PG online Clear revise book with mini tests: Pages: Deforestation 46, 116. Evaluation 121.
Week 4	**Monday 16th March**	• (From Week 5) new and emerging technologies (From Week 6) consolidation Recap on last four weeks and consolidate.	(From Week 5) The design and organisation of the workplace including automation and the use of robotics. Automation. flexible manufacturing systems (FMS) just in time (JIT) • lean manufacturing. How technology push/market pull affects choice. (From Week 6) Revise all knowledge covered in last four weeks including catching up on any areas missed above. Then… Get someone to test you on this if you can or test yourself using previous exam questions from AQA website.	(From Week 5) PG online Clear revise book: Pages: All areas 2-12. https://www.bbc.co.uk/bitesize/guides/zn4bcj6/revision/1 (From Week 6) Create Flash cards, mind maps, Use the PG Online clear revise guide if you have it and complete test questions. Download past papers and mark schemes by typing in AQA D&T GCSE past papers in google.
Week 5	**Monday 23rd March**	(From Week 7) energy generation and storage (From Week 8) developments in new materials	(From Week 7) Fossil fuels Nuclear power Renewable energy Kinetic pumped storage systems. Alkaline and re-chargeable batteries. (From Week 8) Modern materials	(From Week 7) PG online Clear revise book: Pages: All areas 13-16. https://www.bbc.co.uk/bitesize/guides/zf8ck2p/revision/1 (From Week 8) PG online Clear revise book: Pages: All areas 17-16.

			Smart materials Composite materials Technical textiles	https://www.bbc.co.uk/bitesize/guides/zfq8jty/revision/1
Week 6	**Monday 30th March**	(From Week 9) systems approach to designing (From Week 10) mechanical devices	(From Week 9) INPUTS: The use of light sensors, temperature sensors, pressure sensors and switches. PROCESSES: The use of programming microcontrollers as counters, timers and for decision making, to provide functionality to products and processes. OUTPUTS: The use of buzzers, speakers and lamps, to provide functionality to products and processes (From Week 10) The functions of mechanical devices to produce linear, rotary, reciprocating and oscillating movements. Levers Linkages Rotary systems	(From Week 9) PG online Clear revise book: Pages: 22. https://www.bbc.co.uk/bitesize/guides/z6kr97h/revision/1 (From Week 10) PG online Clear revise book: Pages: 24-27 https://www.bbc.co.uk/bitesize/guides/zbt26yc/revision/1
Week 7	**Monday 6th April**	• (From Week 11) Timbers focus: materials and their working properties. (From Week 12) Timbers focus: using and working with materials	(From Week 11) overview of the main categories and types of natural and manufactured timbers: hardwoods including: • ash • beech • mahogany • oak • balsa softwoods including: • larch • pine • spruce manufactured boards including: • medium density fibreboard (MDF) • plywood • chipboard. Material properties: • absorbency (resistance to moisture) • density • fusibility • electrical and thermal conductivity • strength • hardness • toughness • malleability • ductility and elasticity (From Week 12) Properties of materials (recap on Easter work) - Timber based materials (traditional timber children's toys and flat pack furniture). The modification of properties for specific purposes How to shape and form using cutting, abrasion and addition	(From Week 11) PG online Clear revise book: Pages: Main types of Timber: 32-33. Properties – 30, 62-63. https://www.bbc.co.uk/bitesize/guides/zkvny4j/revision/1 https://www.bbc.co.uk/bitesize/guides/zjgyb82/revision/1 (From Week 12) Seasoning to reduce moisture content of timbers (timber based materials). How to cut, drill, chisel, sand and plane? PG online Clear revise book: Pages: Shaping Timbers 83-85 https://www.bbc.co.uk/bitesize/guides/zkvny4j/revision/8
Week 8	**Monday 13th April**	• (From Week 13) Timbers focus: selection of materials or components forces and	(From Week 13) Functionality: application of use, ease of working. Aesthetics: surface finish, texture and colour. Environmental factors: recyclable or reused materials. Availability: ease of sourcing and purchase. Cost: bulk buying.	(From Week 13) PG online Clear revise book: Pages: selection of materials or components 128. Forces – 44 https://www.bbc.co.uk/bitesize/guides/zkvny4j/revision/2

		stresses (From Week 14) Timbers focus: ecological and social footprint sources and origins	Social factors: social responsibility. Cultural factors: sensitive to cultural influences. Ethical factors: purchased from ethical sources such as FSC. Timbers focus: Tension, compression, bending, torsion and shear. How materials can be reinforced, stiffened or made more flexible: eg lamination, bending, (From Week 14) Ecological issues in the design and manufacture of products: Deforestation, mining, That carbon is produced during the manufacture of products The six Rs. Safe working conditions; reducing oceanic/ atmospheric pollution and reducing the detrimental (negative) impact on others Timber based materials (seasoning, conversion and creation of manufactured timbers). Revise all knowledge covered in last seven weeks including catching up on any areas missed. Then… Get someone to test you on this if you can or test yourself using previous exam questions from AQA website.	Practice past exam papers from AQA website and self-assess using the mark scheme: https://www.aqa.org.uk/subjects/design-and-technology/gcse/design-and-technology-8552/assessment-resources (From Week 14) PG online Clear revise book: Pages: ecological and social footprint – 46. sources and origins – 62. https://www.bbc.co.uk/bitesize/guides/zkvny4j/revision/3 https://www.bbc.co.uk/bitesize/guides/zkvny4j/revision/4
Week 9	**Monday 20th April**	(From Week 15) Timbers focus: stock forms, types and sizes	(From Week 15) Planks, boards and standard moldings. Sold by length, width, thickness and diameter. Standard components eg woodscrews, hinges, KD fittings.	(From Week 15) PG online Clear revise book: Pages: stock forms, types and sizes 64-66. https://www.bbc.co.uk/bitesize/guides/zkvny4j/revision/6
Week 10	**Monday 27th April**	(From Week 16) Timbers focus: scales of production	(From Week 16) How products and why are products produced in different volumes? Prototype, batch, mass and continuous.	(From Week 16) PG online Clear revise book: Pages: 104-105. https://www.technologystudent.com/pdf14/display5.pdf
Week 11	**Monday 4th May**	(From Week 17) Timbers focus: specialist techniques and processes	(From Week 17) For example: Turning, sawing, sanding, milling, drilling, lamination.	(From Week 17) PG online Clear revise book: Pages: 83-86. Lamination - 66. Do you know a range of tools, equipment and processes that can be used to shape, fabricate, construct and assemble high quality prototypes?

Week 12	**Monday 11th May**	(From Week 18) Timbers focus: surface treatments and finishes	(From Week 18) The preparation and application of treatments and finishes to enhance functional and aesthetic properties: Timber based materials: painting, varnishing and tanalising.	(From Week 18) PG online Clear revise book: Pages: https://www.bbc.co.uk/bitesize/guides/zkvny4j/revision/11
Week 13	**Monday 18th May**	(From Week 19) environmental, social and economic challenge	(From Week 19) • deforestation • possible increase in carbon dioxide levels leading to potential global warming • the need for fair trade.	(From Week 19) PG online Clear revise book: Pages: 46-49
Week 19	**Monday 25th May**	(From Week 20) communication of design ideas tolerances specialist tools and equipment – Timbers focus.	(From Week 20) freehand sketching, isometric and perspective • 2D and 3D drawings • system and schematic diagrams • annotated drawings that explain detailed development or the conceptual stages of designing • exploded diagrams to show constructional detail or assembly • working drawings: 3rd angle orthographic, using conventions, dimensions and drawn to scale.	(From Week 20) PG online Clear revise book: Pages: Tolerance 129, Communication of ideas 122-125. Tools 83-86. https://www.bbc.co.uk/bitesize/guides/z6jkw6f/revision/1 https://technologystudent.com/despro_flsh/revise17.html
Week 20	**Monday 2nd June**	(From Week 21) Consolidation revision and exam question practice.	(From Week 21) Check topic list provided in Autumn term of Y11 in your green book and revise areas where you are least secure.	(From Week 21) Practice past exam papers from AQA website and self-assess using the mark scheme: https://www.aqa.org.uk/subjects/design-and-technology/gcse/design-and-technology-8552/assessment-resources
Week 21	**Monday 8th June** **EXAM ON 10TH JUNE**	(From Week 22&23) Consolidation revision and exam question practice for days leading up to exam	(From Week 22&23) Final Check of topic list provided in Autumn term of Y11 in your green book and continue to revise areas where you are the least secure so you can tackle all questions. For weaker areas either: Create an A4/A3 visual mind map from resources recommended in this doc. Make 10+ flashcards on the topic. Practice blank page retrieval until you can fill an A4 page at least on the topic. Watch YouTube videos on the topic. Something else that works for you. Key thing is you feel more confident on the areas within that topic. Exam is Wed 10th June 2026	(From Week 22&23) Practice past exam papers from AQA website and self-assess using the mark scheme: https://www.aqa.org.uk/subjects/design-and-technology/gcse/design-and-technology-8552/assessment-resources