

Read and watch list KS4

GCSE D&T	Read	Watch
1. New and Emerging Technologies	https://www.bbc.co.uk/bitesize/guides/zn4bcj6/revision/1 AQA revision book New Grade 9-1 GCSE Design & Technology AQA Revision Guide senecalearning.com/.../free-aqa-dt-gcse-revision https://studyrrocket.co.uk/revision/gcse-design-and-technology-aqa/design-and-technology-aqa/new-and-emerging-technologies	The Rise of the Machines – Why Automation is Different this Time https://www.youtube.com/watch?v=WSKi8HfcxEk
2. Energy generation and storage	https://www.bbc.co.uk/bitesize/guides/zf8ck2p/revision/1 senecalearning.com/.../free-aqa-dt-gcse-revision AQA revision book New Grade 9-1 GCSE Design & Technology AQA Revision Guide https://studyrrocket.co.uk/revision/gcse-design-and-technology-aqa/design-and-technology-aqa/energy-generation-and-storage	What Are Fossil Fuels? National Geographic - https://www.youtube.com/watch?v=YTnE00QPTeO Hydro Electric - The Electric Mountain https://www.youtube.com/watch?v=SWiURkNnBoU&feature=youtu.be
3. Developments in new materials	https://www.bbc.co.uk/bitesize/guides/zfq8jty/revision/1 senecalearning.com/.../free-aqa-dt-gcse-revision AQA revision book New Grade 9-1 GCSE Design & Technology AQA Revision Guide https://studyrrocket.co.uk/revision/gcse-design-and-technology-aqa/design-and-technology-aqa/smart-and-modern-materials-how-can-you-tell-which-material-is-what	A guide to Smart and Modern Materials - https://www.youtube.com/watch?v=FgrlDibPmJo&list=PL7ZF94nMJjsUjHMNQxt8_YfrEAnIMHku&index=20&t=0s Composite & smart materials - https://www.youtube.com/watch?v=OVctAbRembk
4. Systems approach to designing	https://www.bbc.co.uk/bitesize/guides/z6kr97h/revision/1 senecalearning.com/.../free-aqa-dt-gcse-revision AQA revision book New Grade 9-1 GCSE Design & Technology AQA Revision Guide https://studyrrocket.co.uk/revision/gcse-design-and-technology-aqa/design-and-technology-aqa/systems-approach-to-designing	BBC Bitesize: Systems: Sources and functions of components https://www.bbc.co.uk/bitesize/guides/zkrvgdm/revision/2 Microcontrollers – https://www.youtube.com/watch?v=i_g1dD5fFLo&feature=youtu.be

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<p>5. Mechanical Devices</p>	<p>https://www.bbc.co.uk/bitesize/guides/zbt26yc/revision/1 senecalearning.com/.../free-aqa-dt-gcse-revision AQA revision book New Grade 9-1 GCSE Design & Technology AQA Revision Guide</p>	<p>BBC Bitesize: Systems: Electronic & mechanical systems https://www.bbc.co.uk/bitesize/guides/zhq8jty/revision/1</p>
<p>6. Material categories and properties</p>	<p>https://www.bbc.co.uk/bitesize/guides/zjgyb82/revision/1 senecalearning.com/.../free-aqa-dt-gcse-revision AQA revision book New Grade 9-1 GCSE Design & Technology AQA Revision Guide https://studyrocket.co.uk/revision/gcse-design-and-technology-aqa/design-and-technology-aqa/selection-of-materials-and-components</p>	<p>How paper is made: animation https://www.youtube.com/watch?v=DjfCpBKZCd4 Types of wood & manufactured boards https://www.youtube.com/watch?v=SDF5_1KjWzE</p>

GCSE Engineering	Read	Watch
<p>1. Materials</p>	<ul style="list-style-type: none"> • https://mechanicalc.com/reference/engineering-materials • AQA revision book New Grade 9-1 GCSE Engineering AQA Revision Guide 	<ul style="list-style-type: none"> • Metal based materials- https://www.bbc.co.uk/bitesize/guides/z6d48mn/video
<p>2. Engineering processes</p>	<ul style="list-style-type: none"> • https://mechanicalc.com/reference/engineering-materials • AQA revision book New Grade 9-1 GCSE Engineering AQA Revision Guide 	<ul style="list-style-type: none"> • Engineering manufacturing processes- https://www.youtube.com/watch?v=Um_g8sQ_p3Y
<p>3. Systems</p>	<ul style="list-style-type: none"> • http://www.technologystudent.com/cams/camdex.htm • AQA revision book New Grade 9-1 GCSE Engineering AQA Revision Guide • https://www.bbc.co.uk/bitesize/guides/zhq8jty/revision/1 	<ul style="list-style-type: none"> • Electronic and mechanical systems- https://www.bbc.co.uk/bitesize/guides/zhq8jty/video
<p>4. Testing & Investigation</p>	<ul style="list-style-type: none"> • MaterialsScience2000 – Tensile testing 	<ul style="list-style-type: none"> • Materials testing tensile testing https://www.youtube.com/watch?v=D8U4G5kcpcM

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	<ul style="list-style-type: none"> • AQA revision book New Grade 9-1 GCSE Engineering AQA Revision Guide • https://www.livescience.com/47930-what-is-aerodynamics.html • https://www.nasa.gov/audience/forstudents/k-4/stories/nasa-knows/what-is-aerodynamics-k4.html 	<ul style="list-style-type: none"> • Aerodynamics- https://www.youtube.com/watch?v=OnUFE0Uqd80
5. New and Emerging Technologies	<ul style="list-style-type: none"> • https://www.bbc.co.uk/bitesize/guides/zn4bcj6/revision/1 • AQA revision book New Grade 9-1 GCSE Engineering AQA Revision Guide 	<ul style="list-style-type: none"> • Nano technology- https://www.youtube.com/watch?v=bKh4cwAygPM • Hydrogen fuel cells- https://www.youtube.com/watch?v=tajigZ2e6tQ • Electric cars- https://www.youtube.com/watch?v=3SAxXUIre28
6. Practical engineering skills	<ul style="list-style-type: none"> • https://www.bbc.co.uk/bitesize/guides/zffhsrd/revision/4 • AQA revision book New Grade 9-1 GCSE Engineering AQA Revision Guide • http://www.technologystudent.com/designpro/orthogrp1.html • http://www.technologystudent.com/despro_fish/advance1.html • https://www.wonkeedonkeetools.co.uk/product-learning-index • http://www.technologystudent.com/comps/comp6.htm 	<ul style="list-style-type: none"> • Computer aided Design- https://www.youtube.com/watch?v=LvvRoZmdiSY • CNC- https://www.youtube.com/watch?v=FNyEXjRmDtl

VCERT engineering	Read	Watch
1. Engineering Disciplines	<ul style="list-style-type: none"> • https://whatisengineering.com/engineering-disciplines/ 	<ul style="list-style-type: none"> • https://www.youtube.com/watch?v=W74y1RxN6BA
2. Health and Safety	<ul style="list-style-type: none"> • https://www.hse.gov.uk/ 	<ul style="list-style-type: none"> • https://www.youtube.com/watch?v=l1ixYGhPpi8
3. Maths in Engineering	<ul style="list-style-type: none"> • http://www.technologystudent.com/despro_fish/new_maths1.html 	

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4. Engineering drawings	<ul style="list-style-type: none"> • http://www.technologystudent.com/designpro/orthogrp1.html 	<ul style="list-style-type: none"> • https://www.youtube.com/watch?v=y5nV8SOr5G4
5. Engineering materials	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • https://www.bbc.co.uk/bitesize/guides/z6d48mn/v/ideo
6. Practical Skills	<ul style="list-style-type: none"> • https://www.wonkeedonkeetools.co.uk/product-learning-index • https://mechanicalc.com/reference/engineering-materials • http://www.technologystudent.com/equip1/equipex1.htm • http://www.mr-dt.com/manufacturing/toolsintroduction.htm 	<ul style="list-style-type: none"> • https://www.youtube.com/watch?v=eDqgH7Zcmqs • https://www.youtube.com/watch?v=1cK-xN2uAUI

Hospitality & Catering	Read	Watch
1. Practical Skills		30 ideas on how to plate food like a chef https://www.youtube.com/watch?v=kcbRpLX-mqs
2. Careers Catering		Industry Insight: Careers in Hospitality (Catering) https://www.youtube.com/watch?v=hwIEvPK6SGY
3. Careers Hotels		Industry Insights: Careers in Hospitality (Radisson Blu Hotel) https://www.youtube.com/watch?v=cl3bVb-N8PI
4. Problem solving		Turning round hotels in trouble https://www.youtube.com/results?search_query=the+hotel+inspector
5. General	Covers many topics ideal for revision https://www.bbc.co.uk/bitesize/subjects/zbtvxyc	
6. Industry magazine	News and articles from the industry https://www.thecaterer.com/	
7. Industry magazine	News and articles from the industry https://www.hospitalityandcateringnews.com/	
8. Food Inspectors		A whole series on Food inspections and food safety https://www.youtube.com/watch?v=AlaSXeycilc