Topics for revision	Re-visit work	Suggested activities
		 Use symbols next to key process or materials to help jog your memory. Recopy notes in colours Use mind maps or spider diagrams on key topics. Write facts and notes on index cards and stick everywhere! On the wall, fridge TV or even you bed. Use colour-coded markers or highlighters to pick out key bits of information. Put facts to your favourite tunes and change the lyrics of songs to things you need to remember. Discuss information a with friend immediately after new learning to help it sink in – ring a friend or chat after class. Study/do homework with friend(s) via telephone or get together in a group. Repeat key phrases or thing you want to remember out loud lots of times to help it stick. Record your self reading your revision guide and listen to the recording on your phone/ipod. Use of different voices to study (like creating a script, or acting out a play) Copy out key information over and over to make them neat and help you remember it. Make notes during lesson as an aid to concentration. Walk and talk – link in revision with exercising. Move hands or feet for rhythm emphasis while studying Make charts, grids, timelines, diagrams similar to visual learner strategies Trace key words with finger, marker or you hand whilst reading Reenact situations while studying. Practice exam questions. Practice drawing skills. Physical activities linked to theory learning Past papers – drive/designtechnology/resistantmaterials /pastexampapers http://www.aqa.org.uk/subjects/design-and-technology/gcse/design-and-
Materials Woods-hard, soft, manufactured Metals-ferrous, non-ferrous, alloys Plastic-thermoset, thermo	Recognise the working characteristics of the common forms of wood; know the difference between hardwoods and softwoods, and between natural timber and manufactured boards.	technology-resistant-materials-4560/past-papers-and-mark-schemes Concept map notes from lesson. Create revision cards on topic. Create q & a cards on topic. http://www.bbc.co.uk/schools/gcsebitesize/design/resistantmaterials/materialsmaterialsrev1.shtml

	Recognise the working characteristics of the common forms of metals; understand the differences between ferrous and non-ferrous metals and how they are used; know that the properties of metals can be changed by heat treatments; know that metals can be combined to form alloys. Recognise the working characteristics of common forms of plastics; understand the difference between thermoplastics and thermosetting plastics and how this affects the way they are used. Understand that different materials can be combined to change their characteristics.	http://www.technologystudent.com/ an introduction to materials/vaneers/natural woods/manmade boards/metals/alloys/plastics Information on ndrive/reference/resistant materials/GCSE exam revision/powerpoint lesson 2 http://www.bbc.co.uk/education/clips/zkx4d2p watch class clip on an introduction to thermoplastics and thermo set.
Manufacturing processes Tools and equipment Components and fixings	Understand the selection and usage of appropriate tools and equipment, for metal, plastics, wood, smart materials and composites. Have knowledge of permanent and nonpermanent methods of joining materials together. Should be familiar with the tools and equipment that are used for cutting, shaping, casting, moulding, forming and bending.	Concept map notes from lesson. Create revision cards on topic. Create q & a cards on topic. http://www.bbc.co.uk/schools/gcsebitesize/design/resistantmaterials/material componentadhesiverev5.shtml Information on ndrive/reference/resistant materials/GCSE exam revision/powerpoint lesson 2 http://www.technologystudent.com/ injection moulding part1 and 2/blow moulding/rotational moulding/rivits/welding http://www.bbc.co.uk/education/clips/zv8fb9q watch class clip on casting metals

Scale of production (Batch,	Understand how to select and specify	Concept map notes from lesson.
Mass, One-off, JIT)	appropriate materials, quantities, sizes,	Create revision cards on topic.
, ,	tolerances.	Create q & a cards on topic.
Manufacturing Processes		
I wandactaring r rocesses	Be able to produce a sequence of instructions	Information on n drive/reference/resistant materials/GCSE exam
CAD/CANA	that would allow a competent third party or	
CAD/CAM	machine to manufacture the product.	revision/powerpoint lesson 3 and 4
	machine to manadato the product.	
	Be able to identify critical points for quality	http://www.bbc.co.uk/schools/gcsebitesize/design/resistantmaterials/proc
	control, and time scales in the manufacturing	esstechniquesrev2.shtml
		<u> </u>
	process; develop methods to aid accuracy and repetition in manufacture.	
	and repetition in mandiacture.	http://www.bbc.co.uk/schools/gcsebitesize/design/resistantmaterials/proc
	Should be aware of and use as appropriate,	essindpracrev1.shtml
	manufacturing processes and techniques	
	including CAD and CAM.	
		http://www.tachaolamatudout.com/least/face/face/face/face/face/face/face/face
	Should have an industrial and commercial	http://www.technologystudent.com/ batch/ continuous/one-off/
	awareness and be familiar with the processes	Tolerances/ quality control.
	involved in manufacturing in quantity.	
		Practice using the example manufacturing sheet on metal and plastic.
	Have knowledge of, marking out tools,	
	equipment and processes including use of	
	templates.	
	Use measurement systems with accuracy and	
	have an understanding of the need to work	
	within tolerance.	
	Understand the use of x, y, z co-ordinates in	
	CAD and CAM systems.	
PPE and risk assessments	Should be able to recognise the properties,	Concept map notes from lesson.
Safety signs and symbols	working characteristics and combinations of	Create revision cards on topic.
Work shop tools and	smart materials and nanomaterials.	Create q & a cards on topic.
equipment		Croate q & a carde on topic.
Smart Materials: Names and	Should be able to recognise that safety of the	Information on n drive/reference/resistant materials/GCSE exam
types, working properties,	individual is essential; take responsibility to	revision/powerpoint lesson 5
uses.	ensure that hazards are minimised and the	
	working environment is safe to use;	http://www.technologystudent.com/ smart materials/ nano materials/
		PPE/ Health and safety
	Understand the health and safety regulations	·
	when working with tools, equipment,	http://www.bbc.co.uk/schools/gcsebitesize/design/resistantmaterials/designh
	components and materials including the use	ealthrev1.shtml
	of Personal Protective Equipment (PPE).	eaitillev i .Sittilli
Joints	Understand the incorporation of quality	Concept map notes from lesson.
Marking out/ Jigs	checks during the making of a product and	Create revision cards on topic.
Marking Out, Jigs		

Fixtures and fittings	quality control procedures using devices to ensure the consistent production of products.	Create q & a cards on topic. Information on n drive/reference/resistant materials/GCSE exam revision/powerpoint lesson 6 http://www.technologystudent.com/ screws and glues/ joints/manufacturing products using templates. http://www.bbc.co.uk/schools/gcsebitesize/design/resistantmaterials/designanalysisevaluationrev7.shtml The prep sheet issued 1st March: Research the theme, produce a mood board and mind map ideas.
Ergonomics and anthropometric data	Understand how to consider ergonomics and anthropometric data in relation to products that have been designed and manufactured.	Concept map notes from lesson. Create revision cards on topic. Create q & a cards on topic. http://www.technologystudent.com/ Information on n drive/reference/resistant materials/GCSE exam revision/power point lesson 7
Sustainability 6 Rs	Understand the sustainability and environmental issues associated with the designing and making of products; 6 Rs: repair, reduce, recycle, reuse, rethink, refuse.	Concept map notes from lesson. Create revision cards on topic. Create q & a cards on topic. http://www.bbc.co.uk/schools/gcsebitesize/design/resistantmaterials/designsocialrev6.shtml environmental issues/ 6rs and disposal http://www.technologystudent.com/ product life cycle/ sustainability/ 6 r s/ what is a sustainably forest/ Information on n drive/reference/resistant materials/GCSE exam revision/power point lesson 8 http://www.bbc.co.uk/education/clips/z24pyrd watch the clip on how smart materials are used in renewable energy