The Bridge to Post-16
Summer Work

A Level Design and Technology
Exam Board: AQA

This pack contains a programme of activities and resources to prepare you to embark on your Post-16 course in Design and Technology in September.

It should be completed throughout the remainder of the Summer term and over the Summer Holidays to ensure you are ready to start your course in September.

You MUST have this pack completed before your first lesson in the subject

The resources include:

1. Links to three websites where you can research the topics you will be exploring in the course and get a flavour of what you will be learning about in Post-16
2. Research task on key pre-knowledge topics that will help you to be successful in your course.
3. Other relevant revision/questions to help bridge between GCSE and Post-16 courses
4. Suggested therapies to help you if you are struggling with the tasks

Overall we suggest you spend around 3 hours of total work working through the tasks for Design and Technology

Therefore in total, across your 3 subjects you should be completing 9 hours of Summer Work.

Useful Websites

ENGINEERING - DESIGN AND TECHNOLOGY (technologystudent.com)
The Work of Other Designers – GCSE Design and Technology AQA Revision – Study Rocket
How the work of designers has shaped our world GCSE DT - YouTube

Research Task

You must create a sketchbook/ portfolio (1 designer per page) exploring the work of any of the designers attached below. AQA compulsory designers are marked with an asterisk (*) and will have been the designers you researched in GCSE.

Other Tasks

Use the research sheets attached to further your understanding of mechanical and physical properties of materials. This can be completed using the useful websites or general research, as long as it is product based properties and not general properties.

Suggestions if you are struggling

Technology Student has a variety of reading, tasks and video to support you if you don't know where to start.
Annotate images collected from google.
Use the helpsheets attached below to understand what a A grade portfolio should look like.

A LEVEL DESIGN & TECHNOLOGY INDEPENDENT STUDY

Your portfolio/sketchbook will be collected in on the last lesson of each half term for grading. It will be graded using A LEVEL grading A-U

TASK: You must create a sketchbook/ portfolio (1 designer per page) exploring the work of any of the following designers. Compulsory designers are marked with an asterisk (*).

WHY?; To be an exceptional designer you will need to have a wide visual vocabulary and knowledge of designers, &design movements. The ones marked with an asterisk (*) are in the exam.

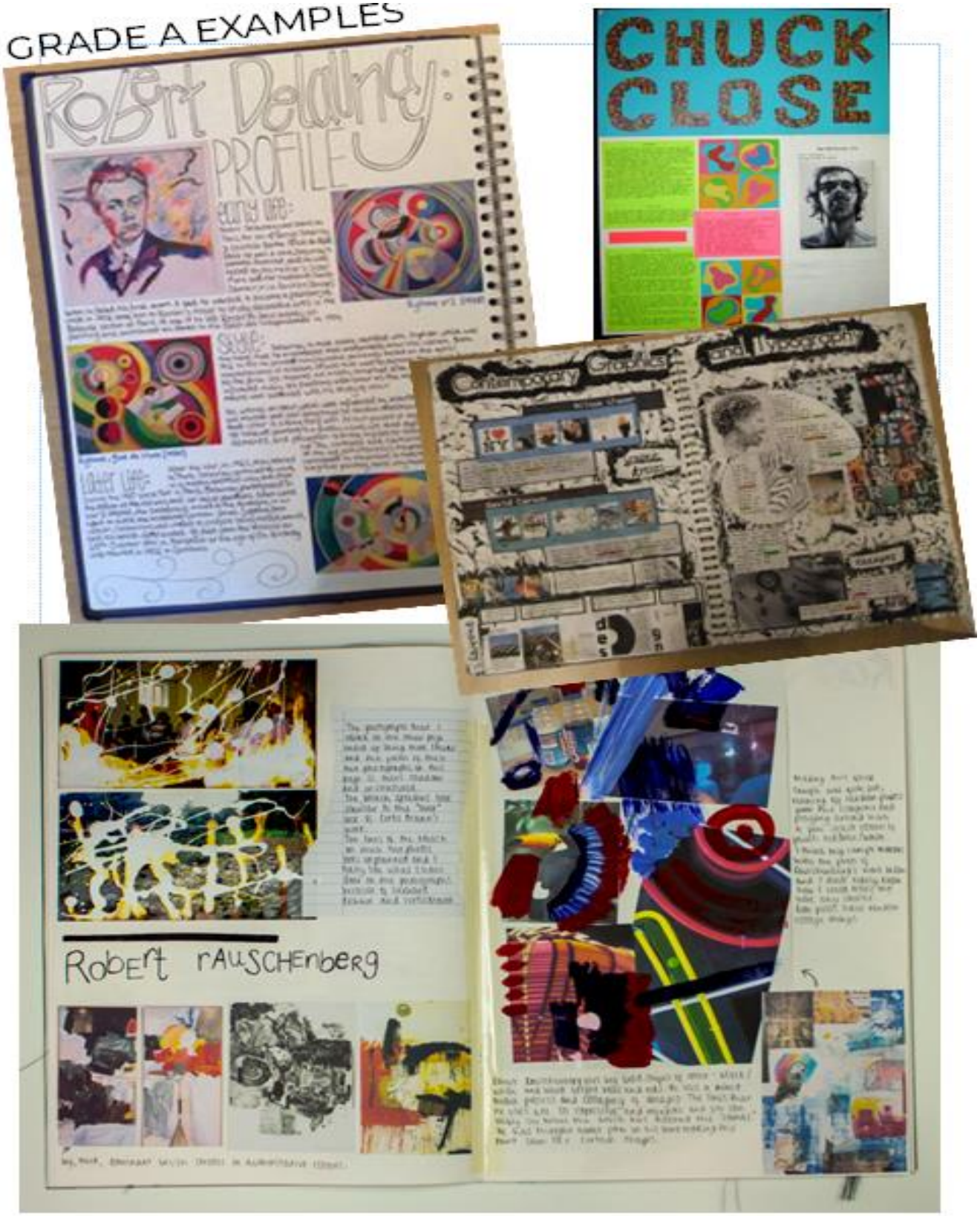
Philiipe Starck*	Product Designer
James Dyson*	Product Designer
Magaret Calvert*	Graphic Designer
Dieter Rams*	Industrial Designer
Charles & Ray Eames*	Designers
Marianne Brandt*	Designer
Harry Beck	Graphic designer
Marcel Breuer	Designer
Coco Chanel	Fashion designer
Norman Foster	Architect
Sir Alec Issigonis	Designer
Wililam Morris	Designer/ Craftsman
Mary Quant	Fashion designer
Louis Comfort Tiffany	Designer
Marcel Breuer	Designer
Gerrit Reitveld	Designer
Charles Rennie Macintosh	Architect
Aldo Rossi	
Stefan Sagemeister	Designer
Tom Dixon	Designer
Yves Behar	Designer
Eero Saarinen	Architect & Designer
Peter Saville	Designer
Ross Lovegrove	Product Designer
Erik Spiekermann	Typographer
Milton Glaser	Designer
Thomas Heatherwick	Designer
Massimo Vignelli	Designer
Wolfgang Weingart	Typographer
Saul Bass	Designer
Joseph Muler Brockman	Designer
Ron Arad	Product designer
Frank Gehry	Architect
Oscar Niemeyer	Architect
Herbert Bayer	Designer
Walter Gropius	Designer

5 STEP SUCCESS CRITERIA FOR A GRADE A/ B

EACH PAGE SHOULD HAVE...

1. A short summation of the person, what they do and their design style. (3 Sentences max)
2. At least 10 images of their work. (Titled, your opinions welcomed)
3. 5 Keywords which you will use to memorise their work.
4. Sketches, CAD models of 1 design you have generated based on their work/ style. This will help you 'design in the style of', which will be a key feature in the exam.
5. A short evaluation of what you think of their work. (3 Sentences max)

GRADE A EXAMPLES



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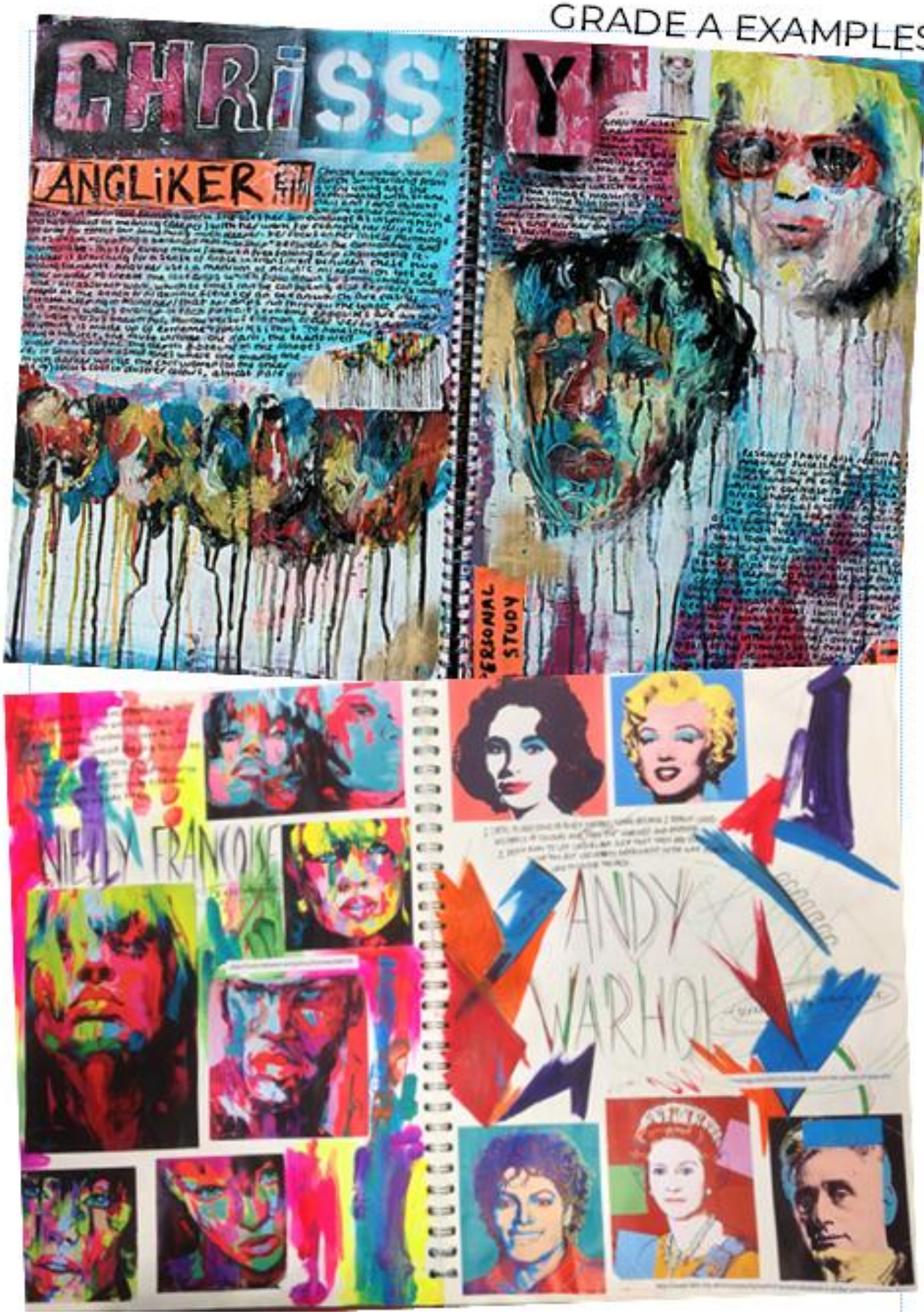

Torsional strength

Definition	Which category of property? ◯ Physical ◯ Mechanical

Task: Find 3 products and state why this property is suitable for each product. (You must refer back to the product)

	Reduce

Hardness

Definition	Which category of property? ◯ Physical ◯ Mechanical

Task: Find 3 products and state why this property is suitable for each product. (You must refer back to the product)

	Reduce

Toughness

Definition	Which category of property? ◯ Physical ◯ Mechanical

Task: Find 3 products and state why this property is suitable for each product. (You must refer back to the product)

	Reduce

Plasticity

Definition	Which category of property? ◯ Physical ◯ Mechanical

Task: Find 3 products and state why this property is suitable for each product. (You must refer back to the product)

	Reduce

Fusibility

Definition	Which category of property? ◯ Physical ◯ Mechanical

Task: Find 3 products and state why this property is suitable for each product. (You must refer back to the product)

	Reduce

Magnetism

Definition	Which category of property? ◯ Physical ◯ Mechanical

Task: Find 3 products and state why this property is suitable for each product. (You must refer back to the product)

	Reduce

Elasticity

Definition	Which category of property? ◯ Physical ◯ Mechanical

Task: Find 3 products and state why this property is suitable for each product. (You must refer back to the product)

	Reduce

Density

Definition	Which category of property? ◯ Physical ◯ Mechanical

Task: Find 3 products and state why this property is suitable for each product. (You must refer back to the product)

	Reduce

Ductility

Definition	Which category of property? ◯ Physical ◯ Mechanical

Task: Find 3 products and state why this property is suitable for each product. (You must refer back to the product)

	Reduce

Malleability

Definition	Which category of property? ◯ Physical ◯ Mechanical

Task: Find 3 products and state why this property is suitable for each product. (You must refer back to the product)

	Reduce

Corrosion resistant

Definition	Which category of property? ◯ Physical ◯ Mechanical

Task: Find 3 products and state why this property is suitable for each product. (You must refer back to the product)

	Reduce

Electrical conductor

Definition	Which category of property? ◯ Electrical ◯ Thermal ◯ Optical

Task: Find 3 products and state why this property is suitable for each product. (You must refer back to the product)

	Reduce

Compressive strength

Definition	Which category of property? ◯ Physical ◯ Mechanical

Task: Find 3 products and state why this property is suitable for each product. (You must refer back to the product)

	Reduce

Tensile strength

Definition	Which category of property? ◯ Physical ◯ Mechanical

Task: Find 3 products and state why this property is suitable for each product. (You must refer back to the product)

	Reduce

Bending strength

Definition	Which category of property? ◯ Physical ◯ Mechanical

Task: Find 3 products and state why this property is suitable for each product. (You must refer back to the product)

	Reduce

Shear strength

Definition	Which category of property? ◯ Physical ◯ Mechanical

Task: Find 3 products and state why this property is suitable for each product. (You must refer back to the product)

	Reduce