

Year 11 Homework/revision schedule 2019-20

Product Design AQA 8552

Revision techniques:

In 2013, research from four universities published a review of hundreds of studies that explored the most effective strategies to lead to long-term learning.

What works:

- **Hard work** gets grades. Students that spend at least two hours a night on their homework/revision are statistically more likely to get better grades. It is important that you follow the homework/revision schedule set by the teachers.
- **Retrieval practice** (the testing effect) requires you to answer a question. It is proven to be the most effective revision strategy. Examples of strategies used in retrieval practice are:
 - Use flashcards (Quizlet) and quizzing to practise recalling information from topics.
 - Use mind-maps, knowledge organisers, or Cornell notes to quiz – read, cover, write. You are aiming to recall all of the information on the revision resource in order to reproduce it from memory.
 - Answering short retrieval questions or multiple choice quizzes
- **Spacing** involves learning a little information regularly, rather than trying to learn a lot in a single day. Recent research has found that the use of spacing resulted in a 10% to 30% difference in final test results compared to students who did lots of cramming. Spacing out revision gives you enough time to forget previously learnt information, meaning that when this information is re-visited and re-learnt it is more likely to be transferred to your long-term memory. We have adapted the homework schedule so that tasks will be broken up into 30-40 minute chunks. This allows time for you to forget, quiz and recall information. Each subject may set all weekly tasks at one time but you should organise your daily schedule so that you are breaking the tasks up into chunks throughout the week.
- **Interleaving** involves mixing up the topics you will study within a subject. Recent research has shown how effective this technique is. Interleaving helps you make links between different topics as well as discriminate between different types of problems.

Mon	Tues	Wed	Thurs	Fri	Sat	Sun
Option D	Option A	Option B	English	Option C		Maths
Maths	English	Science	Maths	Science		English
Science	Science	Option C	Science	Option B		Science
Independent revision	Independent revision	Option D	Option A	Independent revision		MFL

Your teachers have prepared a revision programme that incorporates all of the techniques mentioned above. The homework set from January until June will be the minimum amount of revision required in preparation for the GCSE examinations.

Remember, when completing any independent revision, these strategies do not work:

- Re-reading your notes
- Highlighting your notes
- Making summaries of your notes

The schedule below shows what tasks should be completed in the weeks leading up to the GCSE examinations

	January	February	March	April	May	June
Y11 Product Design Revision Timetable	Week beg: 6 th Jan Homework Questions Task 1: Paper and Board Task 2: Textiles Task 3: Traditional Materials	Week beg: 3 rd Feb Extended answer questions Task 1: Sustainability Task 2: Working Properties Task 3: CAD/CAM Gears	Week beg: 2 nd March AQA Extended answer questions Task 1: Enhancing Materials Task 2: Scales of Making Task 3: Printing Maths in PD	Week beg: 6 th April (Easter) Task 1: Joining Task 2: Moulding Task 3: Finishes Past Exam Papers AQA Maths in PD	Week beg: 4 th May Revision in Lessons Revision Quizizz 8: 120 Questions Task 1: Scale Task 2: Product Analysis Task 3: Design Ideas Maths in PD	Week beg: 1 st June Revision in Lessons Revision Quizizz 10: 100 Questions Task 1: Sustainability Task 2: Working Properties Task 3: CAD/CAM Gears
	Week beg: 13 th Jan Quizizz 55 Questions Task 1: Electronics & Systems Task 2: Materials Properties Task 3: Forces and Stresses Maths in PD	Week beg: 10 th Feb Revision Quizizz 3: 70 Questions Task 1: Standard Components Task 2: Linkages Task 3: Stock Forms	Week beg: 9 th March Revision Quizizz 5: 90 Questions Task 1: Selecting Materials Task 2: New & SMART Materials Task 3: Pulleys & Belts Maths in PD	Week beg: 13 th April (Easter) Task 1: Systems & Control Task 2: Printing Task 3: Thermal Bounding Past Exam Papers AQA Maths in PD	Week beg: 11 th May Revision in Lessons Task 1: Work of Others Task 2: Surface Treatments Task 3: Specification HW: Extended answer questions	Week beg: 8 th June Revision in Lessons Task 1: Manufactured Boards Task 2: Stock Forms %age of waste Task 3: Wasting Abrading HW: Extended answer questions
	Week beg: 20 th Jan Homework Questions Task 1: Working Properties of materials Task 2: Energy Storage Systems Task 3: Producing Polymers	Week beg: 17 th Feb (half term) Revision in Lessons Task 1: Producing Fibres Production Aids Task 2: Working with Paper & Board Task 3: Producing Metals Maths in PD	Week beg: 16 th March Revision in Lessons + Questions Task 1: Cams & Followers Timber Task 2: Metals Movement Task 3: Design Movements	Week beg: 20 th April Revision in Lessons Revision Quizizz 7: 100 Questions Task 1: Standard Components Task 2: Efficiency Task 3: Modifying materials Maths in PD	Week beg: 18 th May Revision in Lessons Revision Quizizz 9: 140 Questions Task 1: Design Briefs Task 2: JIT/Flexible manufacturing Task 3: Communication	Week beg: 15 th June Revision in Lessons Task 1: Producing Fibres Production Aids Task 2: Working with Paper & Board Task 3: Producing Metals
	Week beg: 27 th Jan Revision Quizizz 2: 60 Questions Task 1: Products in Society Task 2: Timber Task 3: Social Issues Maths in PD	Week beg: 24 th Feb Revision Quizizz 4: 60 questions Task 1: QC/QA Task 2: Forces & Stress Task 3: HW: Extended answer questions	Week beg: 23 rd March Revision Quizizz 6: 75: Questions Task 1: Manufactured Boards Task 2: Stock Forms %age of waste Task 3: Wasting Abrading	Week beg: 27 th April Revision in Lessons Past exam questions Task 1: Energy Storage Task 2: Safety Task 3: Drawing Techniques - assessment Maths in PD	Week beg: 25 th May (half term) Task 1: Properties of Materials Task 2: Production Aids Task 3: LCA/LCI Past Exam Papers AQA Maths in PD	Week beg: 22 nd June Revision in Lessons Task 1: Paper and Board Task 2: Textiles Task 3: Traditional Materials
				Week beg: 30 th March Revision in Lessons + Questions Task 1: Textiles Task 2: Paper Task 3: Timber HW: Extended answer questions		

Retrieval practice (the testing effect) requires you to answer a question. It is proven to be the most effective revision strategy. Examples of strategies used in retrieval practice are:

- Answering short questions
- Flashcards (or Quizlet)
- Quizzing (from knowledge organisers)
- Getting people to test you

Interleaving involves mixing up the topics you study within a given subject. Recent research has shown how effective this technique is

Spacing involves learning a little information regularly, rather than trying to learn a lot in a single day.

Revision advice:

- Eat breakfast
- Positive mind-set
- Be resilient
- Put your phone away
- Turn off the TV and music
- Get a good night's sleep – every night!
- Take breaks