

## Year 11 Homework/revision schedule 2019-20

### MATHS Set 1

#### 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

Y11 MATHS Set 1 Revision Timetable	January	February	March	April	May	June
	Week beg: 6 <sup>th</sup> Jan Task 1: Hegarty - Simultaneous Equations including quadratic.  Task 2: Skills Check HAA1.1  Task 3: Exam Questions 1	Week beg: 3 <sup>rd</sup> Feb Task 1: Hegarty – Probability & Set notation  Task 2: Skills Check HAA5.1  Task 3: Exam Questions 5	Week beg: 2 <sup>nd</sup> March Task 1: Hegarty - Bounds  Task 2: Skills Check HAA4.2  Task 3: Exam Questions 9	Week beg: 6 <sup>th</sup> April (Easter) Task 1: Hegarty – Gradient & Area under a curve  Task 2: Skills Check HAA3.3  Task 3: Exam Questions 14	Week beg: 4 <sup>th</sup> May Task 1: Hegarty - Surds  Task 2: Skills Check HAA1.4  Task 3: Half Paper Nov 17 A NC Paper 1	Week beg: 1 <sup>st</sup> June Task 1: Predicted Paper 2  Task 2: Predicted Paper 2  Task 3: Predicted Paper 2
	Week beg: 13 <sup>th</sup> Jan Task 1: Hegarty – Standard form  Task 2: Skills Check HAA2.1  Task 3: Exam Questions 2	Week beg: 10 <sup>th</sup> Feb Task 1: Hegarty – Volume & Surface area  Task 2: Skills Check HAA1.2  Task 3: Exam Questions 6	Week beg: 9 <sup>th</sup> March Task 1: Hegarty – Quadratics (Factorising/completing the square & formula)  Task 2: Skills Check HAA5.2  Task 3: Exam Questions 10	Week beg: 13 <sup>th</sup> April (Easter) Task 1: Hegarty - Ratio  Task 2: Skills Check HAA4.3  Task 3: Exam Questions 15	Week beg: 11 <sup>th</sup> May Task 1: Hegarty - Proof  Task 2: Skills Check HAA2.4  Task 3: Half Paper Nov 17 B NC Paper 1	Week beg: 8 <sup>th</sup> June Task 1: Predicted Paper 3  Task 2: Predicted Paper 3  Task 3: Predicted Paper 3  <b>Last exam 8<sup>th</sup> June</b>
	Week beg: 20 <sup>th</sup> Jan Task 1: Hegarty - Indices  Task 2: Skills Check HAA3.1  Task 3: Exam Questions 3	Week beg: 17 <sup>th</sup> Feb (half term) Task 1: Hegarty – Circle Theorems & Angles  Task 2: Skills Check HAA2.2  Task 3: Exam Questions 7	Week beg: 16 <sup>th</sup> March Task 1: Hegarty – Transformations of graphs/Exact trig values  Task 2: Skills Check HAA6.2  Task 3: Exam Questions 11	Week beg: 20 <sup>th</sup> April Task 1: Hegarty – Trigonometry  Task 2: Skills Check HAA5.3  Task 3: Half Paper Nov 17 A C Paper 2	Week beg: 18 <sup>th</sup> May Task 1: Hegarty – Exponential Growth/Decay & compound interest  Task 2: Skills Check HAA3.4  Task 3: Half Paper Nov 17 A C Paper 3	Week beg: 15 <sup>th</sup> June Task 1:  Task 2:  Task 3:
	Week beg: 27 <sup>th</sup> Jan Task 1: Hegarty - Functions  Task 2: Skills Check HAA4.1  Task 3: Exam Questions 4	Week beg: 24 <sup>th</sup> Feb Task 1: Hegarty – Coordinate Geometry ( $y = mx + c$ )  Task 2: Skills Check HAA3.2  Task 3: Exam Questions 8	Week beg: 23 <sup>rd</sup> March Task 1: Hegarty – Congruency/Similarity/ Similar shapes  Task 2: Skills Check HAA1.3  Task 3: Exam Questions 12	Week beg: 27 <sup>th</sup> April Task 1: Hegarty – Algebraic Fractions  Task 2: Skills Check HAA6.3  Task 3: Half Paper Nov 17 B C Paper 2	Week beg: 25 <sup>th</sup> May (half term) Task 1: Hegarty - Iteration  Task 2: Skills Check HAA4.4  Task 3: Half Paper Nov 17 B C Paper 3	Week beg: 22 <sup>nd</sup> June Task 1:  Task 2:  Task 3:
			Week beg: 30 <sup>th</sup> March Task 1: Hegarty - Vectors  Task 2: Skills Check HAA2.3  Task 3: Exam Questions 13			

**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