

Year 11 Homework/revision schedule 2019-20

MATHS Set 3

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 3 Revision Timetable | January | February | March | April | May | June | |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Week beg: 6 th Jan Task 1: Hegarty 488, 489 - Angles Task 2: Hegarty 500, 501 - Pythagoras Task 3: Mixed Practice Booklet – Task 1 | Week beg: 3 rd Feb Task 1: Hegarty 494, 495 – Bearings Task 2: Hegarty 692, 694 - Metric Conversions Task 3: Mixed Practice Booklet – Task 5 | Week beg: 2 nd March Task 1: Hegarty 451, 416, 418 – Frequency Tables Task 2: Hegarty 453, 454 – Scatter Graphs Task 3: Summit Booklet - Task 2 | Week beg: 6 th April (Easter) Task 1: Exam paper Non-Calc Task 2: Exam paper Non-Calc Task 3: Exam paper Non-Calc | Week beg: 4 th May Task 1: Hegarty - Percentages Task 2: Hegarty - Distance Time Graphs Task 3: Mixed Practice Booklet – Task 3 | Week beg: 1 st June Task 1: Predicted Paper Task 2: Predicted Paper Task 3: Predicted Paper | |
| | Week beg: 13 th Jan Task 1: Hegarty 129, 130 – Significant Figures Task 2: Hegarty 425 - Bar Charts Task 3: Mixed Practice Booklet – Task 2 | Week beg: 10 th Feb Task 1: Hegarty 31, 32, 34, 36 – LCM/HCF Task 2: Hegarty 716, 718 - Speed Task 3: Mixed Practice Booklet – Task 6 | Week beg: 9 th March Task 1: Hegarty 622, 623, 624 – Column vectors Task 2: Hegarty 29, 30 – Product of Primes Task 3: Summit Booklet - Task 3 | Week beg: 13 th April (Easter) Task 1: Exam paper Calc Task 2: Exam paper Calc Task 3: Exam paper Calc | Week beg: 11 th May Task 1: Hegarty – Ratio Task 2: Hegarty - Fractions Task 3: Mixed Practice Booklet – Task 4 | | |
| | Week beg: 20 th Jan Task 1: Hegarty 124, 125, 126 – Standard Form Calculations Task 2: Hegarty 173, 174 - Indices Task 3: Mixed Practice Booklet – Task 3 | Week beg: 17 th Feb (half term) Task 1: Exam Paper Task 2: Exam Paper Task 3: Exam Paper | Week beg: 16 th March Task 1: Hegarty 332, 333, 334 - Ratio Task 2: Hegarty 335 - Ratio Task 3: Summit Booklet - Task 4 | Week beg: 20 th April Task 1: Hegarty – Plotting graphs Task 2: Hegarty - Volume Task 3: Mixed Practice Booklet – Task 1 | Week beg: 18 th May Task 1: Predicted Paper Task 2: Predicted Paper Task 3: Predicted Paper | | |
| | Week beg: 27 th Jan Task 1: Hegarty 60, 80 - Fractions Task 2: Hegarty 870, 871 - Scale Drawings Task 3: Mixed Practice Booklet – Task 4 | Week beg: 24 th Feb Task 1: Hegarty 131, 132 - Estimation Task 2: Hegarty 149, 73, 75 - FDP Task 3: Summit Booklet - Task 1 | Week beg: 23 rd March Task 1: Hegarty 161, 162 - Expanding Task 2: Hegarty 359, 361 – Tree Diagrams Task 3: Summit Booklet – Task 5 | Week beg: 27 th April Task 1: Hegarty – Solving Equations Task 2: Hegarty - Nth Term Task 3: Mixed Practice Booklet – Task 2 | Week beg: 25 th May (half term) Task 1: Predicted Paper Task 2: Predicted Paper Task 3: Predicted Paper | | |
| | <p>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:</p> <ul style="list-style-type: none"> ▪ Answering short questions ▪ Flashcards (or Quizlet) ▪ Quizzing (from knowledge organisers) ▪ Getting people to test you | | <p>Week beg: 30th March Task 1: Hegarty 782, 783, 784 - Substitution Task 2: Hegarty 766, 767 – Best Buys Task 3: Summit Booklet - Task 6</p> | | <p>Interleaving involves mixing up the topics you study within a given subject. Recent research has shown how effective this technique is</p> <p>Spacing involves learning a little information regularly, rather than trying to learn a lot in a single day</p> | | <p>Revision advice:</p> <ul style="list-style-type: none"> ▪ 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 |