# All Work should be in your Blue Book and Hardback

# Your previous tests throughout the year should also help with revision.

| Patterns and Sequences Chapter 18 Textbook | You Must be able to: | Date Revised |
|---|---|---|
| | Recognise a sequence be able to explain the words: sequence, term, position | |
| | Look at repeating patterns and be able to identify any term in the pattern | |
| | Identify a linear sequence and how to find any term in a sequence | |
| | Find the nth term of a sequence | |
| | Identify a quadratic sequence | |
| | Be able to graph sequences | |

| Algebra 1 Chapter 1 | You must be able to: | Date Revised |
|---|---|---|
| | Simplify expressions | |
| | Remove brackets | |
| | Evaluating expressions | |
| | Solve linear equations | |
| | Solve problems using line equations | |
| | Solve inequalities | |

| Factorising Chapter 2 | You must be able to: | Date Revised |
|---|---|---|
| | Factorise with common factors | |
| | Factorise by grouping terms | |
| | Factorise the difference of two squares | |
| | Factorise quadratic equations | |
| | Using factors to simplify algebraic fractions | |

# Second Year Higher Level Revision List for Summer Test

| Quadratic equations Chapter 8 | You must be able to: | Date Revised |
|---|---|---|
|  | Solve quadratic equations using factors |  |
|  | Use the quadratic formula Page 20 in the tables book (Can only use in trinomials) |  |
|  | Solve word problems that become quadratic equations |  |
|  | Use graphs to solve quadratic equations |  |
|  | Form quadratic equations when given its roots. |  |

| Sets Chapter 3 | You must be able to: | Date Revised |
|---|---|---|
|  | Use set terminology to answer questions regarding sets. E.g. Union, intersection, subset, universal, complement, cardinal number, set difference |  |
|  | Work with Venn diagrams to solve questions in sets |  |
|  | Solve problems involving three sets |  |

| Chapter 6 Perimeter Area and Vol | You must be able to: | Date Revised |
|---|---|---|
|  | Find the perimeter and area of regular and irregular shapes |  |
|  | Find the area of a parallelogram |  |
|  | Find the area and Circumference of a circle |  |
|  | Find the surface area and volume of three dimensional shapes |  |
|  | Use and understand scale drawings |  |

| Chapter 17 Cylinder Cone Sphere | You must be able to: | Date Revised |
|---|---|---|
| | You must be able to find the surface area, total area and volume of all three circular shapes | |
| | You must also be able to solve problems using these shapes | |

| Statistics Chapter 5,7,13 | You must be able to: | Date Revised |
|---|---|---|
| **Chapter 5** | <ul><li>Know the different types of data</li><li>Understand how to collect data</li><li>How to get a sample and be able to explain and re write questionnaires to avoid bias</li></ul> | |
| **Chapter 7** | **Find the average ( Mean, median and mode)** | |
| | <ul><li>Know which average to use</li><li>Use frequency tables and find the average using these</li><li>Understand and explain range and variability</li></ul> | |
| **Chapter 13** | <ul><li>Use line plots and bar charts and be</li><li>Be able to construct a Pie chart and/or answer questions on pie charts</li><li>Know the use and how to construct a histogram</li><li>Be able to interpret and construct Ste and leaf plots</li><li>Be able to calculate the range, interquartile range and median in a stem and leaf plot and a back to back stem and leaf plot</li></ul> | |

| Coordinate Geometry of the Line Chapter 11 | You must be able to: | Date Revised |
|---|---|---|
| | Find the distance between two points | |
| | Find the midpoint between two points | |
| | Use the slope formula to<br>  a) Find the slope between two points<br>  b) Find out if two lines are parallel or perpendicular<br>Be able to interpret the slope in real life situations | |
| | • Find the equation of a line when given a point and the slope, or when given two points<br>• Be able to rewrite the equation of a line in the form $y = mx + c$<br><br>• Be able to find an equation of a line that is parallel or perpendicular to a line in the form $y = mx + c$ | |
| | • Graph lines on the Cartesian plane,<br>• Find the points of intersection between two lines, using the graph<br>• Using simultaneous equations | |

| Simultaneous equations Chapter 14 | You must be able to: | Date Revised |
|---|---|---|
| | Solve simultaneous equations | |
| | Solve simultaneous equations containing fractions | |
| | Solve word problems that become Simultaneous equations | |
| | Use graphs to solve simultaneous equations | |

| Geometry 1 Chapter 9 | You must be able to | Date revised |
|---|---|---|
| | <ul><li>Be able to explain what a line is and the different types of angles there are</li><li>Work out missing angles in a triangle</li><li>Understand and answer questions on quadrilaterals</li><li>Know and explain congruent triangles</li><li>Understand and use Pythagoras</li></ul> | |

The best way to revise maths is to practice questions:
- www.projectmaths.ie has a student section useful to revise exam style questions.
- The Test yourself section of each chapter is also good
- Some useful websites to help include
- www.Purplemath.com
- www.Mathsisfun.com

For the exam, BE PREPARED: Pens, Pencils, Ruler, Calculator and your Formula Book. GOOD LUCK!