

Maths Extended Learning Booklet

Year 7

Term 1	Term 2	Term 3
<p>Research definitions for the following words:</p> <p>Integer, digit, remainder, power, roots, factor, multiple, primes, square, cube</p>	<p>Research definitions for the following words:</p> <p>Mean, median, mode, range, average, discrete, continuous, qualitative, quantitative, data</p>	<p>Research definitions for the following words:</p> <p>Quadrilateral, angle, polygon, interior, exterior, proof, tessellation, rotational symmetry</p>
<p>Practise the skills and techniques taught in lessons at home</p>	<p>Make a card for a member of your family that uses one of your new maths skills to share your progress</p>	<p>Teach your parents/carer or a younger sibling one of the new techniques you have learnt in the lesson</p>
<p>Mini Number Investigations – a selection of small number problems</p> <p>https://app.mymaths.co.uk/902-resource/mini-investigations</p>	<p>Pentominoes – investigate the combinations of shapes</p> <p>https://app.mymaths.co.uk/250-resource/pentominoes</p>	<p>Zap it – beat the computer’s strategy</p> <p>https://app.mymaths.co.uk/904-resource/zap-it</p>
<p>Flower beds – how to record the pattern as it grows</p> <p>https://app.mymaths.co.uk/208-resource/flowerbeds</p>	<p>Reactor – generate data on reaction times for analysis</p> <p>https://app.mymaths.co.uk/346-resource/reactor</p>	<p>Investigate symmetry 1 – playing around with symmetry</p> <p>https://app.mymaths.co.uk/312-resource/investigate-symmetry-1</p>

Revision suggestions:

- Review your work at home after each lesson to check that you have understood the main learning objectives – it is a good idea to check last lessons work at the start of each new one so you remember where you were up to as well.
- Keep all your corrected tests, review sheets and completed exercise books in a safe place so that you can look through them before next assessment. They are a valuable record of how you have learned from your mistakes.
- Keep a revision diary – makes notes about what you have learned each week.
- Use the search feature on MyMaths to research the topic areas on that are highlighted as areas to improve on your assessment review sheets – if this is no help then ask your teacher for help.

Year 8

Term 1	Term 2	Term 3
Research definitions for the following words: cube, square, odd, even, solve, change, subject, inequality, represent, substitute, bracket, expand, linear, equation, balance	Research definitions for the following words: parallel, corresponding, alternate, co-interior, vertices, edge, face, perpendicular, isosceles, scalene, clockwise, anticlockwise, hexagons, heptagons, octagons, decagons, obtuse, acute, reflex	Research definitions for the following words: Decimal, percentage, inverse, addition, subtraction, multiplication, division, fractions, mixed, improper, recurring, integer,
Practise the skills and techniques taught in lessons at home	Make a card for a member of your family that uses one of your new maths skills to share your progress	Teach your parents/carer or a younger sibling one of the new techniques you have learnt in the lesson
Billionaire – apply this large number to everyday problems https://app.mymaths.co.uk/903-resource/billionaire	Strawberries and peas – if you like this problem you can try the longer task too! https://nrich.maths.org/11705	How many squares – how many squares inside a rectangle? https://app.mymaths.co.uk/211-resource/how-many-squares
Sheep Pens – how does the pattern grow? https://app.mymaths.co.uk/929-resource/sheep-pens	Balancing the books – if you like this problem you can try the longer task too! https://nrich.maths.org/2505	Investigate symmetry 2 – playing around with symmetry https://app.mymaths.co.uk/313-resource/investigate-symmetry-2
Revision suggestions: <ul style="list-style-type: none"> • Review your work at home after each lesson to check that you have understood the main learning objectives – it is a good idea to check last lessons work at the start of each new one so you remember where you were up to as well. • Keep all your corrected tests, review sheets and completed exercise books in a safe place so that you can look through them before next assessment. They are a valuable record of how you have learned from your mistakes. • Keep a revision diary – makes notes about what you have learned each week. • Use the search feature on MyMaths to research the topic areas on that are highlighted as areas to improve on your assessment review sheets – if this is no help then ask your teacher for help. 		

Year 9

Term 1	Term 2	Term 3
Research definitions for the following words: Expression, identity, equation, formula, substitute, term, 'like' terms, index, power, collect, substitute, expand, bracket, factor, factorise, linear, simplify	Research definitions for the following words: scatter graph, line of best fit, correlation, positive, negative, sample, population, stem and leaf, frequency, table, sort, pie chart, estimate	Research definitions for the following words: terminating, percentage, VAT, increase, decrease, multiplier, profit, loss
Practise the skills and techniques taught in lessons at home	Make a card for a member of your family that uses one of your new maths skills to share your progress	Teach your parents/carers or a younger sibling one of the new techniques you have learnt in the lesson
Probability fair – a set of probability games to play and discuss https://app.mymaths.co.uk/386-resource/probability-fair	Frogs game – help the frogs cross sides https://app.mymaths.co.uk/209-resource/frogs	Hidden faces – an algebraic investigation https://app.mymaths.co.uk/210-resource/hidden-faces
Max Box – maximise the volume of a box https://app.mymaths.co.uk/342-resource/max-box	3 x 3 areas – if you like this problem you can try the longer task too! https://nrich.maths.org/5667	Jewellery boxes – if you like this then try the longer NRICH task too. https://nrich.maths.org/3104
Revision suggestions: <ul style="list-style-type: none"> Review your work at home after each lesson to check that you have understood the main learning objectives – it is a good idea to check last lessons work at the start of each new one so you remember where you were up to as well. Keep all your corrected tests, review sheets and completed exercise books in a safe place so that you can look through them before next assessment. They are a valuable record of how you have learned from your mistakes. Keep a revision diary – makes notes about what you have learned each week. Use the search feature on MyMaths to research the topic areas on that are highlighted as areas to improve on your assessment review sheets – if this is no help then you can ask your teacher for help. 		