

Westbourne House School Revision – Summer Term

Y8 MATHS REVISION CHECKLIST

The Exam(s) will consist of:

- Three papers:
 - Non-calculator Paper – duration 60 minutes
 - Calculator Paper – duration 60 minutes
 - Maths Aural – duration 20 minutes (paper is done during a maths lesson)

Equipment you will need for the exam:

- Ruler (15cm and 30cm)
- Pencil
- Eraser and pencil sharpener
- Scientific Calculator (for Calculator Paper only)
- Compass
- Protractor

TOPIC / PAPER	WHAT TO REVISE	DONE?
Non-calculator Paper	<ul style="list-style-type: none"> • Calculations (including with decimals) - add, subtract, multiply and divide • Reverse calculations <ul style="list-style-type: none"> ○ i.e. if $135 \times 46 = 6210$, what is $621 \div 46 =$ • Fractions \leftrightarrow decimals \leftrightarrow percentages • Percentages <ul style="list-style-type: none"> ○ percentage of an amount ○ increasing and decreasing an amount by a percentage • Fractions <ul style="list-style-type: none"> ○ of an amount ○ adding/subtracting/multiplying and dividing • BIDMAS • Prime factors (cherry trees) • Sequences • Algebra <ul style="list-style-type: none"> ○ Substitution ○ Equations ○ Extended thinky questions – usually writing equations. • Probability • Area of rectangles, triangles, circles and other compound shapes. • Perimeter of polygons. • Conversion graphs 	

	<ul style="list-style-type: none"> • Pie Charts • Angles between parallel lines, in triangles, along a line, round a point. • Transformations – rotation, reflection, translation and enlargement. 	
Calculator Paper	<ul style="list-style-type: none"> • Rounding - significant figures and decimal places • Ratio • Percentage <ul style="list-style-type: none"> ○ profit and loss • Speed/Distance/Time • Algebra <ul style="list-style-type: none"> ○ Simplify ○ multiply out brackets ○ factorise ○ wordy algebra questions ○ continuing patterns • Conversions ie. 1 inch = 2.54 cm, 1 foot = 12 inches, what is 21 feet in metres? • Averages <ul style="list-style-type: none"> ○ mode, mean, median, range ○ total amount given mean • Circle - area and circumference (and parts of circles) • Drawing nets of 3-D shapes – leading to volume and surface area questions <ul style="list-style-type: none"> ○ Volume and litres • Angles in a polygon. • Plotting straight lines (level 3 also need to be able to plot quadratics) • Bearings 	
Maths Aural	<ul style="list-style-type: none"> • Exam taken in classroom under exam conditions. • Questions are read out by the teacher and pupils are allowed to show their workings. • No calculators to be used. 	

NOTES/TIPS:

- Practise, practise, practise – the more questions you do the better!!
- Use the CGP Maths 13+ Practice Book ISBN 978 1 78294 1811 that you have been given. Work through the topics steadily checking your answers as you go along. Try to correct any mistakes that you make. You should be trying to get all number and algebra questions correct.
- Revise by looking back at the practise questions on this website for the other two terms.
- Use your notes books, revision cards and appropriate websites like www.mymaths.co.uk to help you do questions.
- Look through the past papers you have done in lessons. Try to correct any mistakes you made.
- Most topics can come up in either or both papers; however, normally the topics listed above are on each paper
- On the Calculator Paper the topics are more “wordy” and require more problem solving
- Workings are essential in both papers. It should be assumed that any question with more than 1 mark requires at least one line of working. In the calculator paper this means writing the calculation

that you are about to type into your calculator down. Workings should be clearly presented and not “doodle” like. All workings should be logical.

- For any further information or guidance about revision or the actual exam, please contact the Head of Maths – Mrs Barbara Langford (blangford@westbournehouse.org)
 - Finally, come back to school with a list of topics that you need to focus on next term before your Common Entrance.
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