

## 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
  - Mental Arithmetic Test – duration 10 minutes

#### Equipment you will need for the exam:

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

TOPIC / PAPER	WHAT TO REVISE	DONE?
Non-calculator Paper	<ul style="list-style-type: none"> <li>• Calculations (including with decimals) - add, subtract, multiply and divide</li> <li>• Reverse calculations               <ul style="list-style-type: none"> <li>○ i.e. if <math>135 \times 46 = 6210</math>, what is <math>621 \div 46 =</math></li> </ul> </li> <li>• Fractions <math>\leftrightarrow</math> decimals <math>\leftrightarrow</math> percentages</li> <li>• Percentages               <ul style="list-style-type: none"> <li>○ percentage of an amount</li> <li>○ increasing and decreasing an amount by a percentage</li> </ul> </li> <li>• Fractions               <ul style="list-style-type: none"> <li>○ of an amount</li> <li>○ adding/subtracting/multiplying and dividing</li> </ul> </li> <li>• BIDMAS</li> <li>• Prime factors (cherry trees)</li> <li>• Sequences</li> <li>• Algebra               <ul style="list-style-type: none"> <li>○ Substitution</li> <li>○ Equations</li> </ul> </li> <li>• Probability</li> <li>• Area of rectangles, triangles, circles and other compound shapes.</li> <li>• Perimeter of polygons.</li> <li>• Conversion graphs</li> <li>• Interpret Pie Charts</li> <li>• Angles between parallel lines, in triangles, along a line, round a point.</li> <li>• Transformations – rotation, reflection, translation and enlargement.</li> </ul>	

Calculator Paper	<ul style="list-style-type: none"> <li>• Rounding - decimal places</li> <li>• Ratio</li> <li>• Percentage <ul style="list-style-type: none"> <li>◦ profit and loss</li> </ul> </li> <li>• Speed/Distance/Time</li> <li>• Algebra <ul style="list-style-type: none"> <li>◦ Simplify</li> <li>◦ multiply out brackets</li> <li>◦ factorise</li> <li>◦ wordy algebra questions</li> <li>◦ continuing patterns</li> </ul> </li> <li>• Using a given conversion ie. 1 inch = 2.54 cm, 1 foot = 12 inches, what is 21 feet in metres?</li> <li>• Averages <ul style="list-style-type: none"> <li>◦ mode, mean, median, range</li> <li>◦ total amount given mean</li> </ul> </li> <li>• Circle - area and circumference (and parts of circles)</li> <li>• Drawing nets of 3-D shapes – leading to volume and surface area questions <ul style="list-style-type: none"> <li>◦ Volume and litres</li> </ul> </li> <li>• Angles in a polygon.</li> <li>• Plotting straight lines (Advance level also need to be able to plot quadratics)</li> </ul>	
Mental Arithmetic Test	<ul style="list-style-type: none"> <li>• No calculators to be used.</li> <li>• Written paper with number topic questions, based on times tables, the four operations and equivalent fractions, decimals and percentages</li> </ul>	

### 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](http://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 Lucy Low ([lflow@westbournehouse.org](mailto:lflow@westbournehouse.org))