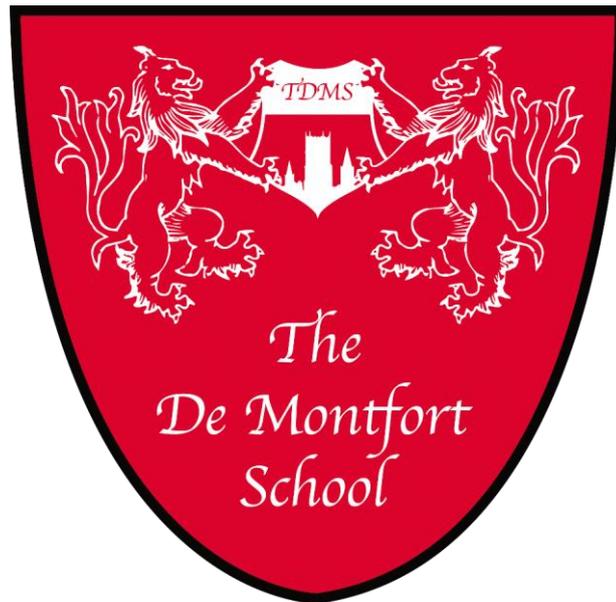


Expectations in Maths



In this booklet are the basic expectations in the maths department but also what is expected by the government for a child working in year six.

These are the areas that are assessed by teachers according to the government's criteria. A child has to achieve 100% during **independent** work, which is not directly after being taught the skill, to achieve the expected level for year six.

Place value	Show understanding of the value of digits both in the whole (to tens of millions) and decimal numbers (to at least thousandths). This will also be very important in calculations.
Calculate mentally	Have mental methods for $+$ $-$ \times \div with whole and decimal numbers. Use these skills to work out related facts, or calculations with mystery digits.
Multi-step problems	Solve a problem that requires more than two calculations to solve it. These calculations will also be of more than one type of calculation. The problems can be quite wordy so reading comprehension and interpretation of information will be needed.
Equivalent fractions, decimals and percentages	Show understanding of the equivalent facts for these different ways of writing a quantity. This will include mixed numbers and be more complex than just $\frac{1}{2} = 50\% = 0.5$
Calculate with fractions, decimals and percentages.	Calculate the fractions of a quantity or a percentages of a quantity. E.g. $\frac{2}{5}$ of 60cm or 15% of £25. Carry out calculations with decimal numbers. These can be straight forward questions or be put into a context for problem solving.
Substitute into a formula	Pupils learn several formulae when calculating areas of shape. E.g. area of rectangle is lw (length \times width). It may also be in a problem context where a formula is given and the result has to be calculated or even work the inverse and find the original amount.
Calculate with measures	This is usually duration of time, such as a timetable. It will also be at least one other form of measure such as length, capacity or weight. It will require movement between units. So minutes into hours and minutes. Kilograms into grams, carry out the calculation and then convert it back into the appropriate amount.
Calculate missing angles	Pupils will have learned angle facts and rules. They will be given a diagram with some information filled in. Using the learnt rules they will calculate the missing angles. This could be triangles, straight lines, quadrilaterals or a combination.

- **Attendance** – We all get ill from time to time. However, most of the small illnesses can be coped with in school. Please do not allow your child to keep taking the day off for minor ailments as they will miss important steps in their learning. Our lessons are double lessons and so we can get quite a lot covered in that time. Missing one or two of these lessons is going to put your child at significant disadvantage and damage their confidence.
- **Attitude** – Your child needs to come to every lesson and every homework with a positive attitude and that comes from home. Please do not tell them that you were rubbish at maths and so they will be too. If you are not sure what to do, ask them to teach it to you. It is a great way for them to reinforce their knowledge and boost their confidence by explaining it. Please make sure that they are given the appropriate work space and atmosphere to be able to concentrate in. Social life, although important can be planned with their homework in mind. A 30 minute homework is very easily fitted in. If it is totally impossible, then there are places in school for your child to do their work at lunchtime. There are no excuses for not doing homework.
- **Equipment** – Please make sure that your child has the correct equipment: Pens, pencils, rubber, sharpener, 30cm rigid ruler, protractor and ideally a calculator.
- **Homework** – Your child will be receiving weekly homework, intended to last around 30 minutes and will be expected to hand it in after putting their full effort into it. Please support your child with this homework but do not do it for them as this does not help them and us to identify what they have not understood. Sometimes the homework may be preparation for what is coming up and they should do their best (flip learning). When we get closer to the exams, homework is likely to increase. The better effort the child puts in the better result will come out, please support them by instilling good learning habits with them and a positive attitude to their work and achievements.

Useful websites

These web-sites will be used for teaching and learning in school and for homework. Computers are available in school at lunchtime for pupils' without access to a computer at home. Many of the activities are compatible with mobile devices but not all.

www.activelearnprimary.co.uk your child will be given an individual log-in for this site.

www.mymaths.co.uk your child will be given the school log-in and a personalised log-in

www.sumdog.com your child will be given an individual log-in for this site.

<http://www.transum.org/Software/> a great website for games and ideas for revision of skills, such as times tables.

www.primarygames.co.uk great games for practising a wide variety of maths skills. Available online for *evaluation only* but still able to be played. We have purchased the rights in school.

Sites for revision purposes:

<http://www.bbc.co.uk/education/subjects/z826n39> this is the new BBC bitesize site.

<http://www.bbc.co.uk/bitesize/ks2/maths/> this is the old version of the site, which has some fun games and activities.