



Oxley Park Academy Mathematics Curriculum

At Oxley Park Academy we have chosen to follow the new national curriculum for Mathematics.

The new National Curriculum states three clear aims to ensure that all pupils:

Become fluent in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils have conceptual understanding and are able to recall and apply their knowledge rapidly and accurately to problems

Reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language

Can solve problems by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.

Please follow the link below to access the complete curriculum for Key stage 1 and 2

https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/335158/PRIMARY_national_curriculum_-_Mathematics_220714.pdf

What are the key changes for maths?

- There's quite a lot of new content. This includes addition and subtraction of fractions and more complex division.
- Children are being reintroduced to Roman Numerals across Key stage 2
- Practice is really important! The basics such as times tables and number facts need to be addressed constantly through varied and repeated practice so that children can solve progressively complex problems.
- There is a renewed emphasis on problem solving with a particular focus on multi-step problems, money and time.
- Within problem solving children are now expected as before to reason and communicate effectively.
- The programme of study is set out on a year-by-year basis however schools have some flexibility in when they teach content within each key stage.
- Calculators have been banned in the KS2 SAT from 2014. The new programme of study backs this up by emphasising further the importance of mental fluency and the use of efficient written methods in the four mathematical operations.
- Levels are going: the government has announced that National curriculum levels will be abolished and be replaced. Through close monitoring and assessments teacher will be able to report to parents on children's progress.

So what can you do to help?

- Keep memorised facts and skills ongoing
- Regular practice of key mental strategies and written methods
- Create a positive attitude towards maths – try not to tell children you are no good at Maths as this attitude can rub off on the children!
- If you have any questions about your child's maths please pop in speak to your child's class teacher and they will be happy to help.

Changes at a glance in content

Mathematics – what's when?

Multiplication tables:

Y2: 2, 5 & 10 times tables

Y3: 3, 4 & 8 times tables

Y4: all tables up to 12x12

Standard written methods:

Y3: Column addition and subtraction

Y4: Standard multiplication

Y5: Short division

Y6: Long division

Fractions

Y1: Half and quarter

Y2: $\frac{3}{4}$ and $\frac{1}{3}$. Find $\frac{1}{2}$ of a number

Y3: Add and order simple fractions

Y4: Add + Subtract fractions

Y5: Use mixed numbers

Y6: Add & Multiply fractions

Algebra

Y6: Simple formulae, finding missing numbers, etc.