Nyewood CE Infant School

MATHEMATICS

Our vision for Mathematics at our school…

As Mathematicians, children at Nyewood CE Infant school will become confident, happy and resilient learners who are able to use number, shape and measures to answer questions and solve problems as members of God's world.

Children in our school will learn about…

- Fluency, reasoning and problem solving;
- Number sense and place value;
- Addition and subtraction;
- Multiplication and division;
- Fractions;
- Geometry;
- Statistics.

All children will have the opportunity to…

- Become fluent in mathematics concepts;
- Reason about their mathematical understanding;
- Solve problems in a range of contexts;
- Use and apply their mathematics independently.

We enrich the curriculum in Mathematics through…

- Exploring and investigating in mathematics;
- Using the whole school environment to support our learning e.g. the outside learning areas and conservation areas;
- Using texts to enrich our mathematics;
- Using and applying mathematics in a range of contexts;
- Talking about mathematics, using our reasoning skills;
- Solving interesting and challenging problems in mathematics.

By the end of the EYFS children will…

- Have a deep understanding of number to 10, including the composition of each number;
- Subitise (recognise quantities without counting) up to 5;
- Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts;
- Verbally count beyond 20, recognising the pattern of the counting system;
- Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity;
- Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.

By the end of Key Stage 1 children will…

Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward
Recognise the place value of each digit in a two-digit number (tens, ones)
Compare and order numbers from 0 up to 100; use greater than, less than and = signs
Read and write numbers to at least 100 in numerals and in words
Use place value and number facts to solve problems.
Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100
Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.
Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers
Choose, use appropriate standard units to estimate, measure and compare length/height, mass, temperature, capacity
Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value
Compare and sequence intervals of time
Tell and write the time to five minutes
Know the number of minutes in an hour and the number of hours in a day.
Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs
Solve problems using all of the above concepts
Identify and describe the properties of 2-D and 3D shapes
Order and arrange combinations of mathematical objects in patterns and sequences
Use mathematical vocabulary to describe position, direction and movement
Interpret and construct simple pictograms, tally charts, block diagrams and simple tables
Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity
Ask and answer questions about totalling and comparing categorical data.