



Y2 Maths overview 2022-23

| Maths Activity | Building Skills and Disciplinary Knowledge | Approaches to Developing Skills and Disciplinary Knowledge | Building Substantive Knowledge and Understanding | Approaches to Developing Substantive Knowledge and Understanding | Curricula Materials | Assessed through (T1 T2 T3) | | |
|--------------------------------|--|---|--|---|--|---|---|--|
| | | | | | | Arithmetic | Problem solving Reasoning | Times tables |
| Fluency | <ul style="list-style-type: none"> Recall the answers to basic math facts automatically and without hesitation | <p>Times table testing- each class has a weekly slot to test the children on their timetables</p> <p>144 Club - Incentive for children to learn all of their times tables</p> | <p>Understanding place value of numbers</p> <p>Understanding addition and subtraction of numbers</p> | <ul style="list-style-type: none"> Class teacher modelling Class differentiated tasks | <p>TERM 1:</p> <ul style="list-style-type: none"> Numbers within 100 Adding and subtracting 2 digit numbers Addition and subtraction word problems Measuring length Interpreting graphs Multiplication and division 2, 5 and 10 | Most children will be able to... (working at) | Some children will not yet be able to...(working towards) | Some children are confidently able to... (exceeding) |
| Reasoning | <ul style="list-style-type: none"> Follow a line of enquiry Conjecturing relationships and generalisations Develop an argument Justify or prove using mathematical language | <p>Modelled and displayed appropriate Maths vocabulary to support children as reasoning requires active talk</p> <p>Modelled strategies by peers and from masters over time</p> | <p>Understanding Geometry - shape/positional language</p> | <ul style="list-style-type: none"> Concrete resources available Using outdoor opportunities | | | | |
| Problem solving | <ul style="list-style-type: none"> Identify and understanding the problem Plan the ways to solve a problem Monitor progress in tackling a problem Review a solution to a problem | <p>Opportunities to apply skills in their maths lessons daily following strategies of masters over time</p> <p>Problem solving is applied across other subjects such as Science and DT</p> <p>We will be having a problem solving focused week in the year which will link to another subject</p> | <p>Understanding multiplication and division of numbers</p> <p>Understanding Measurement - length/weight/volume/height time/money/temperature/capacity</p> | <ul style="list-style-type: none"> Money week Mathletics online resource Maths home learning | <p>TERM 2:</p> <ul style="list-style-type: none"> Exploring calculation strategies Money and real life problem solving Understanding fractions Numbers within 1000 Faces, shapes and patterns, lines and turns | | | |
| Mathletics | <ul style="list-style-type: none"> Apply the skills they have learnt | <p>Children can access Mathletics offsite</p> <p>Teachers monitor progress by accessing pupil levels and encourage appropriately</p> <p>Rewards are given in Fridays worship for completing certain levels</p> | <p>Understanding fractions of numbers</p> | <ul style="list-style-type: none"> Problem-solving opportunities in lessons | | | | |
| Presenting data/ Communicating | <ul style="list-style-type: none"> Use a variety of software (excel) to present information | <p>Opportunities to use excel to present collected data</p> | <p>Problem-solving</p> <p>Understanding statistics</p> | | <p>TERM 3:</p> <ul style="list-style-type: none"> Add and subtract 2 digit and 3 digit numbers Measuring capacity and volume Measuring mass Time and Real life problems Multiplication and division 3x and 4x | | | |
| SMSC | <ul style="list-style-type: none"> Working with others of different religious, ethnic and socioeconomic backgrounds, according to given briefs wider knowledge of Y2 maths curriculum Resolve conflicts and differing opinions should these arise Use of imagination and creative thinking Reflect on tasks Show willingness to explore and understand maths from a variety of cultural backgrounds enjoyment of Y2 Maths curriculum (investigating, problem-solving, teamwork, collaborating, presenting) | <p>Provide opportunities for children to research in pairs</p> <p>Plan in collaboration, teamwork, problem-solving and investigating opportunities</p> | | | | | | |