



St, Joseph's Catholic Primary School

Maths Curriculum Statement



INTENT

At St Joseph's, we see the importance of mathematics in everyday life and we want our children to: be number fluent; solve problems; to reason; to think logically and to work systematically and accurately. All children are challenged to excel in Maths and have a positive attitude and enjoyment when approaching lessons.

New mathematical concepts are introduced using a 'Concrete, Pictorial and Abstract' approach; enabling all children to have a hands-on practical experience when learning new mathematical topics throughout school. Through this approach, our children have clear images and models to aid their understanding. This then helps the children with making connections across the different areas of maths. We understand that the fluency and recall of basic facts and times tables are key to mathematical concepts, therefore arithmetic and times table are practised daily to embed these facts.

Mathematical vocabulary is integral to the learning of Maths at St Joseph's. Vocabulary is shared with children during lessons and displayed for them to easily access. Throughout the lesson, children are encouraged to use the specific vocabulary when explaining their reasoning and mathematical thinking. At our school, we are always looking for ways to develop the children's real-life experience. In Maths, we try to expose children to use their mathematical skills in real life situation by planning cross curricular learning both in and out of the classroom.

IMPLEMENTATION

Our Maths curriculum is based on the White Rose Maths Hub. The order of the curriculum is carefully sequenced to build on learning throughout the year to become an effective mathematician. The tasks provided support the children's fluency, reasoning and problem solving which are carefully embedded in all topics. From Reception to Year 6, CPA approach is becoming an established way of learning, where children are able to use these representations and structure to support learning, mathematical thinking and making links.

Fluency is well practised throughout school with: morning maths, daily arithmetic and times table Rockstars daily. This helps to build the main building blocks for making connections across the curriculum.

Reasoning and problem solving is an essential skill we instil in children. Thereby, we plan children to deepen their understanding by using partner discussion where they can share their mathematical learning. Our Catholic values and virtues, resilience and perseverance, support our children in exploring questions and maths knowledge.

For assessment, pre and post assessments are completed for each topic to inform teaching and identify progress in individual children. These tasks additionally help assess gaps in learning which can aid intervention. Interventions are both immediate and planned in, to plug gaps or misconceptions.

Maths is carefully planned to make use of the outdoor environment including our local environment. Local walks into Otley are planned to carry out mathematical opportunities which relate to real life understanding of maths. Such as: counting traffic and buying stamps with money. This encourages our children to make connections and explore and incorporate maths outside the classroom. Maths is also planned cross curricular, for example in Science drawing bar charts, calculating the mean average, in History ordering event chronologically and in Geography using 6-digit grid references. These opportunities allow children to be enriched in the teaching of maths in different subjects.

IMPACT

At St. Joseph's, we want children to have a genuine enjoyment and love for maths. With this, we intend for children to have a quick recall of number facts and procedures as well as flexibility and fluidity between different contexts and representations. We teach children the importance of maths as a skill for life and that we want them to be well equipped for their next stage in life.

From the start of children education in Year Reception, we help the children grow as curious mathematicians and assess their progress in end of topic and termly assessment, allows to see the impact of progress from YR to Y6.

St Joseph's pupil are taught high-quality maths lessons across the school, with this we expect at all children make excellent progress and can make connections and recognise relationships between numbers. By the time they leave us, our children are confident, articulate and happy mathematicians and have great memories of their progress in maths throughout their time at St Joseph's.