

Maths 2019 Subject Policy

At Dove Green we are creating a world class school that promotes a happy, caring, inclusive and environmentally friendly community; where children experience stimulating learning, fully reflecting the culture and customs of the UAE:

- Through respect
- Through the curriculum
- Through community
- Through communication and relationships
- Through personalised support and development
- Through self -analysis and evaluation

Aims (combined with objectives box)

The over-arching aims for mathematics at Dove Green are 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 students develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately
- reason mathematically by following a line of enquiry, conjecturing relationships and generalizations, 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

Mathematics is an interconnected subject in which students need to be able to move fluently between representations of mathematical ideas. Our aims are for the students to make rich connections across mathematical ideas to develop fluency, mathematical reasoning and competence in solving increasingly sophisticated problems. They should also apply their mathematical knowledge to science and other subjects.

Curriculum

At Dove Green, we cover all the national curriculum objectives for Maths using the Abacus scheme for work which enables us to ensure coverage of objectives over all the year groups.

Our Curriculum at Dove Green is underpinned by our 16 habits of mind, these learning skills aim to ensure our children become strategic reasoners and insightful, persevering, creative learners.

Additionally, critical thinking processes are reinforced using Edward De Bono's 'Six Thinking Hats' – used throughout our school daily as a tool for group discussion and individual thinking

100 words approx. More specifics of the curriculum we follow

Roles and Responsibilities

100 words approx.

Students: to participate fully in all lessons, asking questions and working in a team to solve problems.

Parents: to help practice times tables and support with the fluency of facts. ie number bonds and division facts

Teachers: to provide engaging and stimulating lessons for the children that challenges everyone to enable all students to reach their full potential.

Leaders: to raise the standards of Maths throughout the school by monitoring,

- To monitor the planning, teaching and learning of mathematics throughout the school.
- To help raise standards in maths.
- To provide teachers with support in the teaching of mathematics.
- To provide staff with CPD opportunities in relation to maths within the confines of the budget and the School Improvement Plan
- To monitor and maintain high quality resources.

Inclusion

The individual needs of all students are considered carefully when planning and teaching Maths at Dove Green to help the students to reach their full potential. Where necessary, teachers identify which students are not making expected progress and take steps to improve their progress and attainment in Maths, usually in liaison with a member of the inclusion team. Students with SEND are identified on planning and alternative tasks are provided for them if necessary. More able and talented pupils are also identified on planning and suitable learning challenges are provided.

Where required, children's TIP's and IEP's incorporate suitable objectives from the National Curriculum for Mathematics. These targets may be worked upon within the lesson as well as on a 1:1 basis outside the mathematics lesson. Maths focused intervention in school helps students with gaps in their learning and mathematical understanding. These are delivered by trained support staff and overseen by the SENCO.

Parental Engagement

Parents have a big role to play with the learning of Maths. Maths is a very practical subject and is involving in a lot of things we do daily. The parents can help their child to learn their times tables and support with the fluency of facts for example, number bond, division facts etc.

Also, they can support the student in real life situations using Maths.

- Allowing their child to be part of the shopping (buying and change)
- Measure with their child through baking
- Telling the time and reading timetables for buses or trains.

Planning and Time allocation

Teachers plan engaging lessons that incorporate problem solving and challenge.

FS

In Foundation Stage, Maths is incorporated into everything they do, starting with the number register and measuring the height of the children, number formation and counting, shapes and space.

KS1

In Key Stage One, they have between 18 and 20 sessions (15mins long) which create lessons that range from 30mins – 1hr.

Complete a Mental Maths test every 2 weeks

KS2

In Key Stage Two, they have 5 lessons a week that range between 45 mins to 1 hour long.

Complete a Mental Maths test every 2 weeks and a times table test every week.

Resources

We are well stocked with resources to help the children learn Maths in a variety of ways.

Assessment

Continuous assessment happens throughout the year and all the data is tracked on Classroom Monitor and used for reporting. Every half term, students take an Abacus assessment on what they have learnt that half term and these are used with the teacher's evaluations and tracking data to inform planning to ensure that gaps are filled, progress is made and to target children's individual needs.

Teachers moderate the work between classes to ensure consistent, accurate levels throughout the year.

Marking of children's work is essential to ensure they make further progress. Work is marked against success criteria, in line with the school marking policy, and includes a 'Green for Growth'. 'Green for Growth' is an opportunity for the teacher to provide a challenge or a question to extend the children further.

At the end of the year the children take GL progress tests in Maths which are the UAE National Test. These include a Mental Maths test and a problem-solving test.