Subject on a page **Maths at Denby Free**

Intent

Deliver an engaging curriculum which nurtures and inspires the future generation of mathematicians

Provide opportunities to hone practical skills in order to create life-ready, independent learners

Allow children to build mathematical resilience through: investigating misconceptions, problem solve and develop critical thinking

Build on previous learning and develop knowledge and critical thinking through a consistent approach to maths.

Develop key vocabulary which elevates mathematical reasoning and understanding

Implementation

We take a **MASTERY** approach to maths. All children are given the opportunity to develop a **deep** and **long-lasting** understanding of the subject.

The CPA Approach:

Concrete Resources

Counting Sticks

Fraction wall/pieces

Base 10

Counters

Measuring equipment

Place Value Grids

Multilink

Numicon

Number lines

Bead strings

2D/3D Shapes

Counting Apparatus

Pictorial Resources:

Part Whole Model

Bar Model

Arrays

Base 10 representations

Place Value columns

Number lines

Abstract Resources:

In line with our calculation policy

We Challenge and Support

Use of fluid, differentiated maths groups

Groupings are flexible and regularly monitored

Additional scaffolds

Use of additional adults

Additional Challenge Tasks

Targeted questioning

Planned Intervention groups

Adaptation of questions

Use of CPA approach

Use of working walls

ALL children will experience challenge

Focusing on the basics

Daily Arithmetic:

- WRM Flashback 4

Times Table Rockstars

Consistency with a Team Approach

Regular staff meetings and briefings

Feedback from monitoring

Planning and resource support

White Rose Scheme

Task Variety

White Rose Maths

Classroom Secrets

Practical tasks

Outdoor learning

Well Structured Lessons

Flashback four

Guided Learning

Varied Fluency Tasks

Reasoning and Problem Solving Tasks

Mini Plenaries (throughout the lesson)

- Address misconceptions
- Peer/self assess
- Reflect upon learning

Assessment

Instant

Verbal Feedback

Written Feedback

Self marking

Reflections

Formative

WRM End of Unit Assessments

Flashback 4 Daily Starters

Summative

NFER assessments

(Autumn 1, Summer 2)

KS2 Assessments (SATs)

Year 4 Multiplication Check

Termly Data Points

Data Tracked and analysed for all Year Groups and Key Groups

Regular Monitoring

Book Looks

Staff Questionnaires

Pupil Questionnaires

Pupil Voice

Learning Walks

Slide/Planning Check

Resource Audits

Conversations

Impact

Learners develop detailed knowledge and skills across the curriculum and as a result achieve well.

Children can talk confidently about maths during pupil voices. They can articulate where they have accessed support and challenge in different areas of maths.

Assessment data shows that all children are making good progress across Key Stage 2.

Learning walks show consistent teaching and learning across the school. With similar approaches used in line with the White Rose Scheme and our calculation policy.

Books show appropriate differentiation to meet children's individual needs and show progression.

Staff questionnaires show staff are confident with the subject, have strong subject knowledge and provides opportunity for targeted CPD