Mathematics Guidance
Mixed Aged Planning in Years 2-4
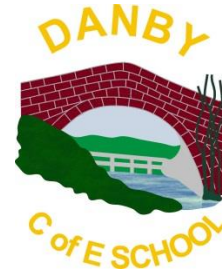
Overview and Long Term Plans

North Yorkshire County Council

MathsHUBS Archimedes NE

Introduction and Rationale

The project was borne out of the need in North Yorkshire, to organise the maths curriculum into areas which could be taught to mixed age classes. North Yorkshire has many small schools which lend themselves to mixed aged classes e.g. Y2 – Y4 or even whole key stages.

The project wanted to collate areas of similar content, to facilitate class teachers to teach multiple year groups with each year group accessing their curriculum entitlement.

These planning documents have been produced to provide an overview of learning objectives, together with associated exemplification for the three aims of the mathematics national curriculum, to enable mixed age teaching and learning of mathematics.

Long Term Planning and structure of units:

Although you may decide to block topics to teach in one go entirely, within this document are two suggested alternate models for long term planning of mathematics linked to the units. Timings for each unit are suggestions only. The unit can easily be adapted for any combination of mixed age classes within KS2.

There are 7 standalone units linked to the National Curriculum. The Units are:

Number and Place Value	NPV	(5 weeks)
Addition and Subtraction	NAS	(6 weeks)
Multiplication and Division	NMD	(5 weeks)
Fractions, Decimals and Percentages	NFD	(5 weeks)
Geometry	GEO	(5 weeks)
Measures	MEA	(8 weeks)
Statistics	STC	(2 weeks)

The structure of each Unit is broken down in order to link similar objectives across years 2-4. There is unlikely to be an exact match across all year groups so teachers of mixed age classes will have to use their discretion in choosing an order of teaching that will work across all year groups. In addition there is exemplification and reasoning guidance from the NCETM, links to the schemes of work written by the White Rose Maths Hub and links to NRich activities.

Contributors and Acknowledgements

The working party consisted of four teachers all working with mixed age classes and a Local Authority mathematics adviser. The group were;

Future work and updates

This is intended to be the final version of these plans; however updates will be made if any errors are found. Feedback is welcome. Please email Julie.pattison@northyorks.gov.uk with any feedback or enquiries.

Long Term planning

Option 1

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number and Place Value NPV			Addition and Subtraction NAS			Multiplication and Division NMD		Measures MEA			
Spring	Fractions decimals and Percentage NFD			Number and Place Value NPV		Geometry GEO			Addition and Subtraction NAS			Statistics STC
Summer	Multiplication and Division NMD			Measures MEA				Geometry GEO		Fractions decimals and Percentage NFD		Statistics STC

Long Term planning

Option 2

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number and Place Value NPV					Addition and Subtraction NAS						Statistics STC
Spring	Multiplication and Division NMD					Fractions Decimals and Percentage NFD					Measures	
Summer	Measures MEA		Geometry GEO					Measures MEA				Statistics STC

Long Term planning

Option 3 (3 day (top) and 2 day (bottom) for part time teaching split)

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	NPV – Number and Place Value					NAS – Addition and Subtraction					NMD – Multiplication and Division	
	MEA – Measuring					GEO – Position, Direction & movement					STC - Statistics	
Spring	NMD – Multiplication and Division			NFD – Fractions, Decimals and Percentages					GEO – Shape and Angles			
	STC - Statistics			MEA – Time					NPV – Number and Place Value			
Summer	GEO – Shape and Angles	NAS – Addition and Subtraction					MEA – Perimeter, Area & Units					
	NPV – Number and Place Value	NMD – Multiplication and Division					NFD – Fractions, Decimals and Percentages					