

Maths Workshop Year 5
Tuesday 2nd February 2016

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A Firm Foundation

The New Mathematics Curriculum

The New curriculum started in September 2014. Certain things have changed:

- “ There is a much greater emphasis on children being able to calculate using formal methods (without the use of calculators).
- “ There is a much greater focus on reasoning and applying: recognising different representations/different situations
- “ Children are expected to deepen their understanding through using and applying (eg investigations).

The New Mathematics Curriculum

This has implications :

- “ To know multiplication tables to 12x12 by the end of Year 4.
- “ Apparatus will be used with older children before using visual and abstract recording.
- “ Children will continue to be encouraged to explore using and applying (eg through investigations).

Year 5 Curriculum Focusing on Number

- “ Count forwards and backward with positive and negative numbers through zero.
- “ Count forwards/backwards in steps of powers of 10 for any given number up to 1,000,000.
- “ Compare and order numbers up to 1,000,000.
- “ Compare and order numbers with 3 decimal places.
- “ Read Roman numerals to 1,000.
- “ Identify all multiples and factors, including finding all factor pairs.
- “ Use known tables to derive other number facts.
- “ Recall prime numbers up to 19.
- “ Recognise and use square numbers and cube numbers.
- “ Recognise place value of any number up to 1,000,000.
- “ Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 or 100,000.
- “ Round decimals with 2 decimal places to nearest whole number and 1 decimal place.

Year 5 Curriculum

Focusing on Number (continued)

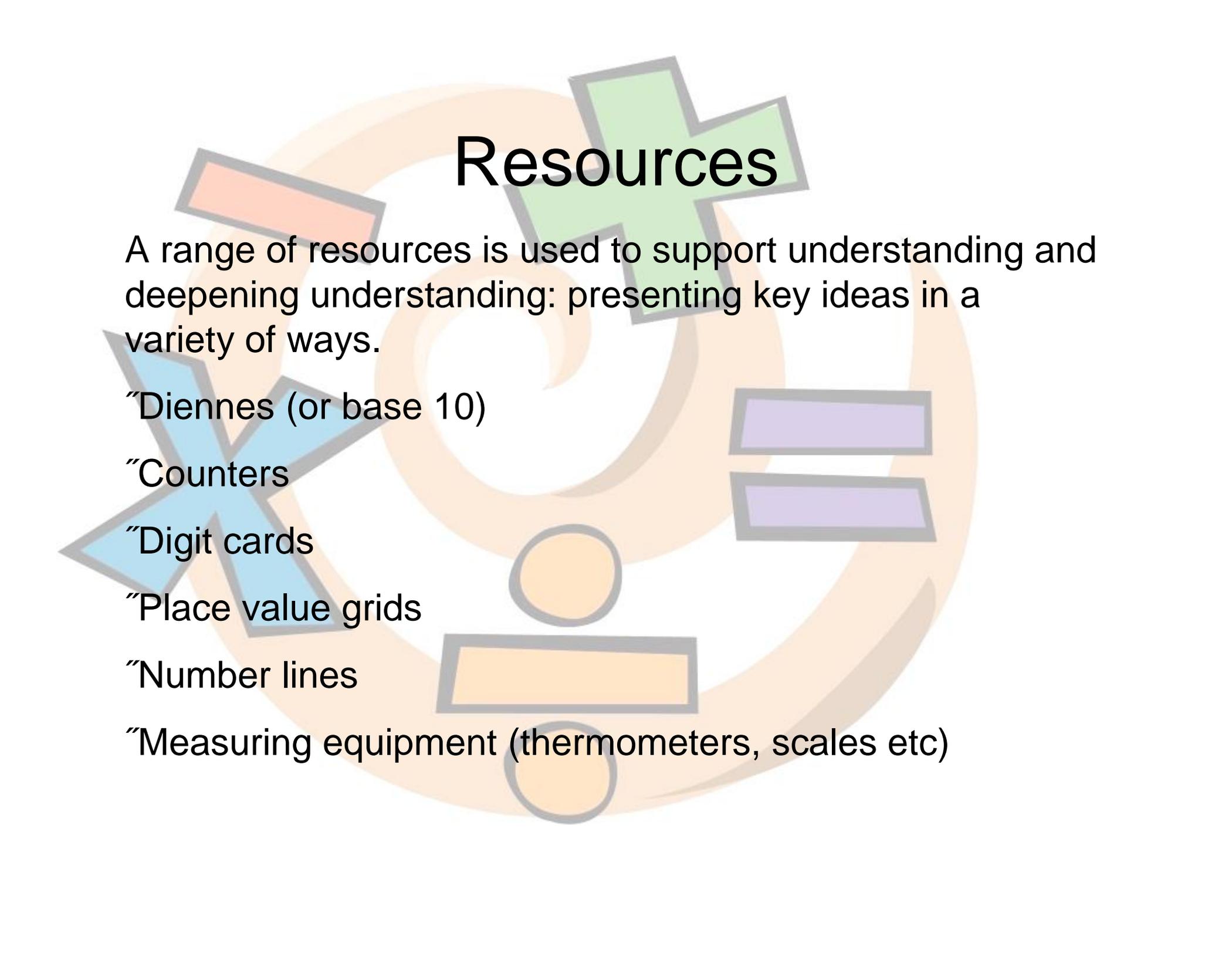
- “ Add and subtract: Numbers with more than 4-digits using formal written method.
- “ Use rounding to check answers.
- “ Multiply: 4-digits by 1-digit/ 2-digit
- “ Divide: Up to 4-digits by 1-digit
- “ Multiply & divide: Whole numbers & decimals by 10, 100 and 1,000
- “ Recognise and use thousandths.
- “ Recognise mixed numbers and improper fractions and convert from one to another.
- “ Multiply proper fractions and mixed numbers by whole numbers.
- “ Identify and write equivalent fractions

Vocabulary

This vocabulary new to year 5 and builds on that used lower down the school.

- "powers of 10
- "efficient written method
- "factor pairs
- "composite numbers
- "prime number
- "prime factors
- "square number
- "cubed number
- "formal written method

Resources



A range of resources is used to support understanding and deepening understanding: presenting key ideas in a variety of ways.

"Diennes (or base 10)

"Counters

"Digit cards

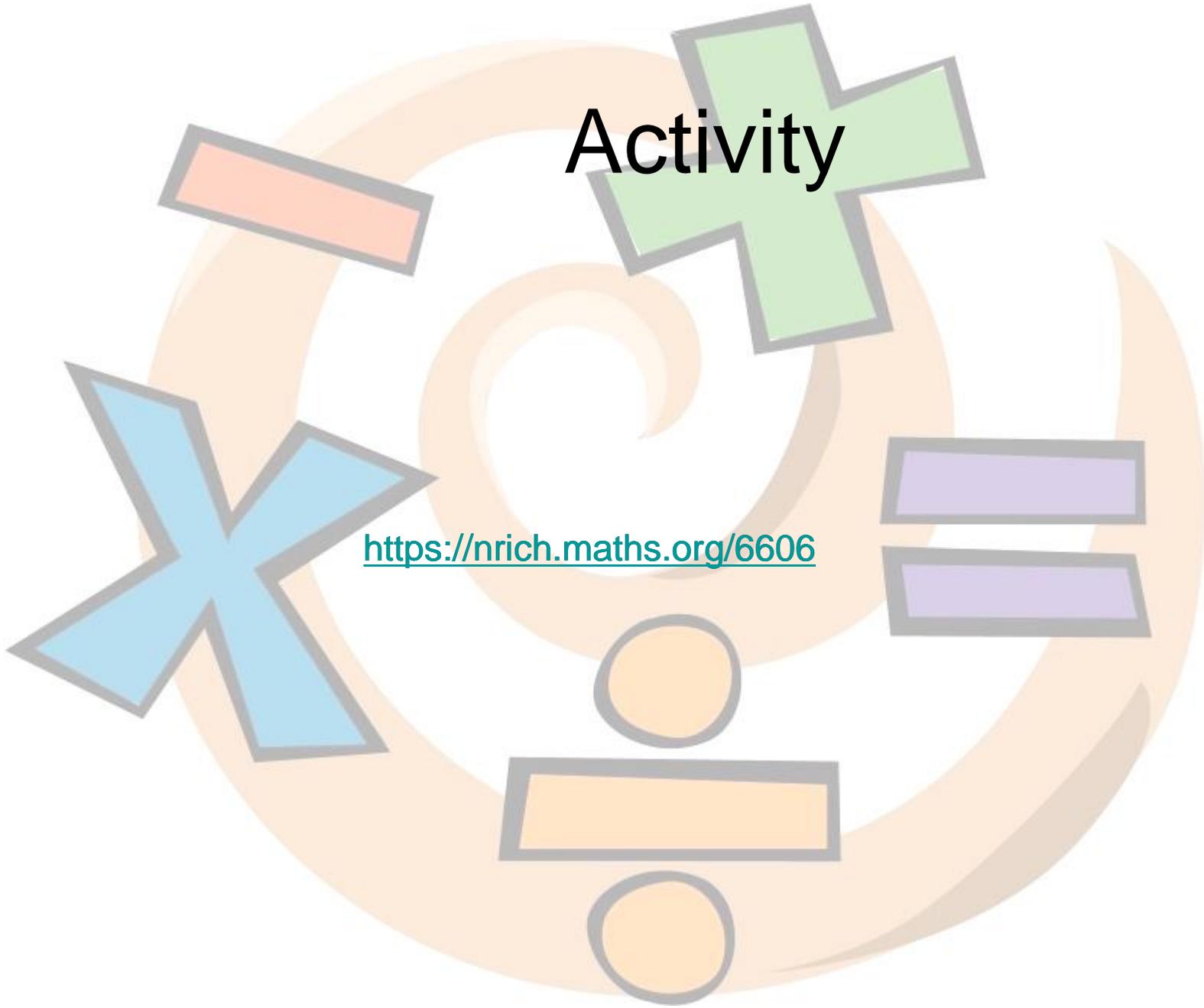
"Place value grids

"Number lines

"Measuring equipment (thermometers, scales etc)

Activity

<https://nrich.maths.org/6606>



Assessment

"The new curriculum has removed levels and instead focuses on children reaching The National Standard at the end of each year.

"At the end of Year 6 this is known as being ~~Secondary~~ ready.q

"Day to day assessment is done to decide on next steps and inform future planning.

"Use of assessment booklets to record what the children can do.

How you can help at home

- “ Support with revising multiplication tables (up to 12x12)
- “ Practise number bonds to all numbers up to 20, number bonds to a hundred and decimals to 10
- “ Using money to pay
- “ (Telling the time, calculating time intervals, timetables)
- “ Real life maths
- “ Little and often . Try to keep it fun!