A stylized purple tree logo with a thick trunk and a rounded canopy. The canopy is filled with several teardrop-shaped leaves, each containing a white letter. The letters, starting from the top and moving down, are: R, Z, E, D, O, U, H, E. The text is overlaid on the tree.

Maths Workshop Year 6
Monday 1st February 2016

Terra Firma
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 12×12 by the end of Year 4.
- “ Apparatus will be used with older children before using visual and abstract recording. This supports them being able to understand concepts and enables them to recognise variation (different ways of seeing the same idea).
- “ Children will continue to be encouraged to explore using and applying (eg through investigations).

Year 6 Curriculum Focusing on Number

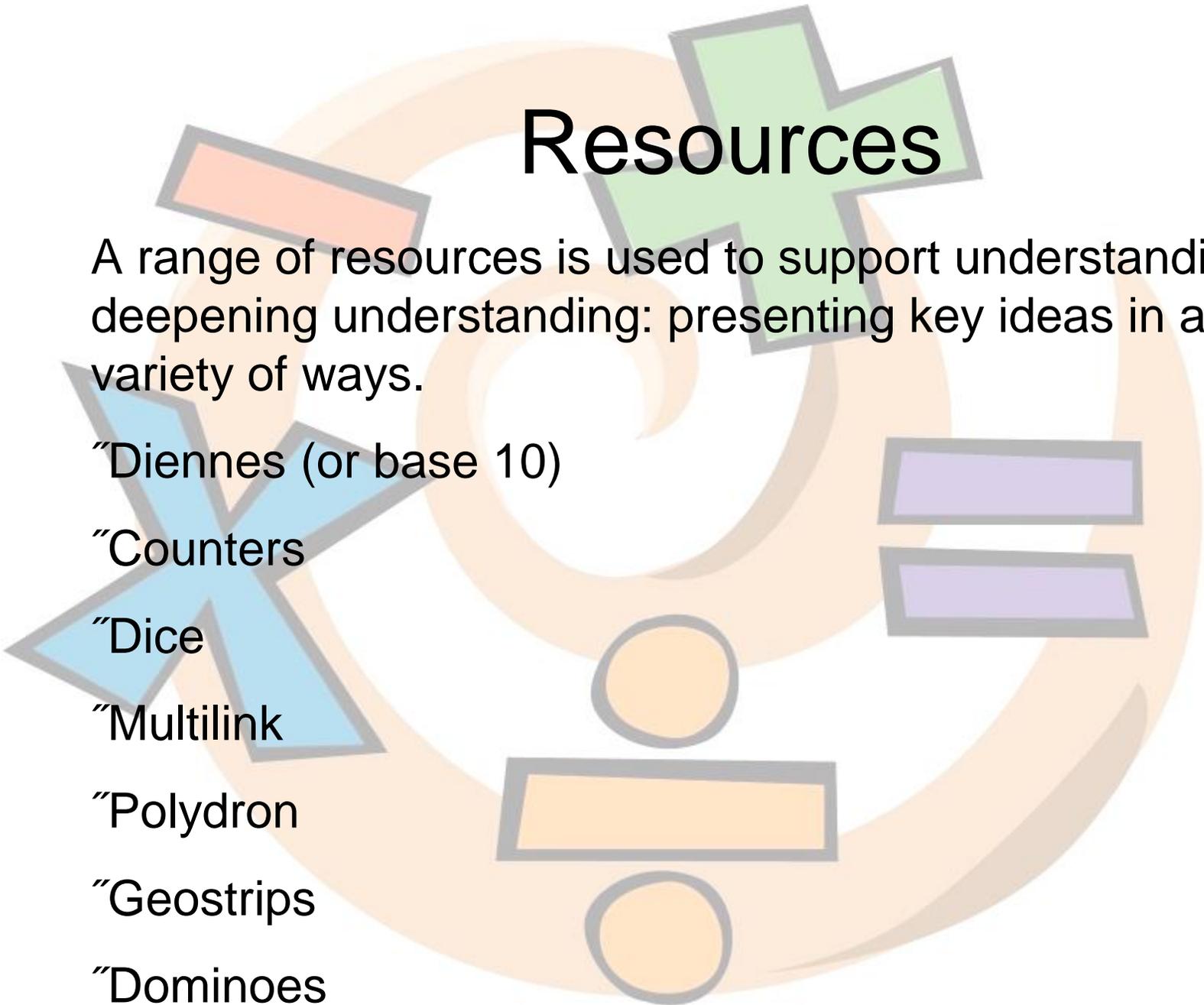
- “ Use negative numbers in context and calculate intervals across zero.
- “ Compare and order numbers up to 10,000,000.
- “ Identify common factors, common multiples and prime numbers.
- “ Round any whole number to a required degree of accuracy.
- “ Identify the value of each digit to 3 decimal places.
- “ Use knowledge of order of operations to carry out calculations involving four operations.
- “ Multiply:
4-digit by 2-digit
- “ Divide:
4-digit by 2-digit
- “ Add and subtract fractions with different denominators and mixed numbers.
- “ Multiply simple pairs of proper fractions, writing the answer in the simplest form.
- “ Divide proper fractions by whole numbers.
- “ Calculate % of whole number.

Vocabulary

This vocabulary new to year 6 and builds on that used lower down the school.

- " numbers to ten million
- " order of operations - BIDMAS
- " common factors, multiples and squares
- " Quadrilaterals . rhombus, trapezium, parallelogram, kite
- "Perpendicular, adjacent
- "Ratio and proportion
- "Formulae and algebra
- "Radius, diameter, circumference
- "Co-ordinates 4 quadrants
- "Tessellation, translation
- "Linear number sequences

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

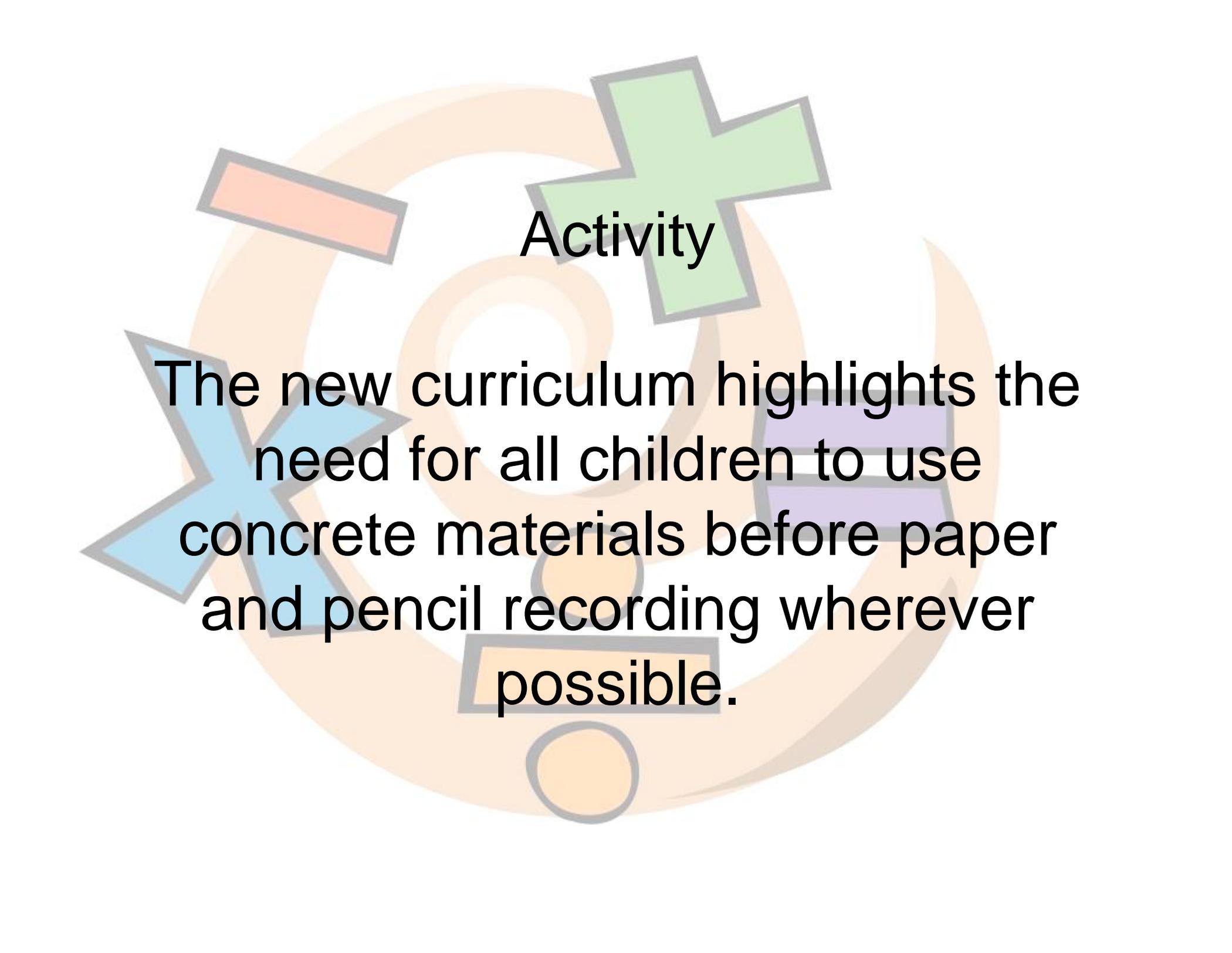
"Dice

"Multilink

"Polydron

"Geostrips

"Dominoes



Activity

The new curriculum highlights the need for all children to use concrete materials before paper and pencil recording wherever possible.

Assessment

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

“They will be given a scaled score in the KS2 SATS.

“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 1000, and operating with decimals to 3 decimal places.
- “ Using money to pay.
- “ Calculating percentages (eg. discounts)
- “ Telling the time, calculating time intervals, using timetables.
- “ Little and often . Try to keep it fun!