Welcome

* **Please have a go at the new arithmetic questions**

You can choose Year 2 green or Year 6 yellow

We will come back to these later……

Sheet Primary School

Maths and the new curriculum

By the end of the session……

* Understand the background to the recent changes to the new national curriculum in maths.
* Understand what your child is expected to know at the end of their year group.
* Know about the different calculation methods

By the end of the session…..

* And……..
* Know the types of questions children have to answer in national assessment tests – and try some!!
* Know how you can help your child achieve even better by helping at home.

Principles underlying Curriculum 2014 in maths

* **Deeper learning rather than superficial learning**
* Removal of levels to help this. Children's achievement will be measured as beginning, working towards and secure at end of year expectations.
* **All children mastering calculation with confidence.**
* More time on fewer topics.
* **All year groups this year will be assessed on the new national curriculum and results reported to you.**
* Focus on Fluency, reasoning and solving problems.

Assessing without levels

* Applies to all subjects
* Attainment no longer given as a numerical 'level' such as Level 2,3 or 4
* Attainment measured as……
* **Beginning** towards end of year group expectations
* **Working towards** year group expectations
* **Secure** end of year group expectations

New Maths Curriculum Expectations

What does your child need to know by the end of each year group?

A ‘Mastery’ Curriculum

* Based on three strands, which should underpin all mathematics…

* **FLUENCY**
* REASONING
* **PROBLEM SOLVING**

Higher Expectations

* **Although there are fewer objectives to cover in a year, many of these objectives are more difficult, with many being moved 'down' from a higher year group.**
* The expectation is that more time is spent on these objectives to ensure '**deep learning**' takes place – this is based on the Singapore system of mathematics;
* Examples of new content introduced at different year groups are as follows…

Year 1 Examples

* ‘Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number (previously a Year 2 Objective);
* Represent and use number bonds and related subtraction facts within 20 (previously a Year 2 objective);
* Measure and begin to use volume (not in any previous primary curriculums);
* Describe position, direction and movement, including three-quarter turns (previously a Year 2 objective).

Year 2 Examples

* Recognise, find, name and write the fraction 1/3 of a length, shape, set of objects or quantity (previously a Year 3 objective);
* Estimate and measure temperature (in °C) - previously a Year 3 objective;
* Tell and write the time to five minutes (previously a Year 3 objective).

Year 3 Examples

* Count in multiples of 8 (previously a Year 4 objective);
* Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction (previously a Year 4 objective);
* Add and subtract fractions with the same denominator within one whole (e.g. 5/7 + 1/7 = 6/7) – not in any previous primary curriculums;
* Roman numerals from I to XII (not in any previous primary curriculums);
* Measure the perimeter of simple 2-D shapes (previously Year 4);
* Tell and write the time from an analogue clock, including am/pm, the 24hr clock and reading time to the nearest minute (from Y4).

Year 4 Examples

* Recall all multiplication and division facts for multiplication tables up to 12 x 12 (previously a Year 5 objective, which was up to 10 x 10);
* Count backwards through zero to include negative numbers (previously a Year 5 objective);
* Read Roman numerals to 100 (I to C) – not in any previous primary curriculums;
* Add and subtract fractions with the same denominator (not in any previous primary curriculums);
* Round decimals with one decimal place to the nearest whole number (previously a Year 5 objective).

Year 5 Examples

* Read Roman numerals to 1000 (M) and recognise years written in Roman numerals (not in any previous primary curriculums);
* Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers; establish whether a number up to 100 is prime and recall prime numbers up to 19 (previously Y6);
* Recognise cube numbers and the notation (^{3});
* Multiply proper fractions and mixed numbers by whole numbers (not in any previous primary curriculums).

Year 6 Examples

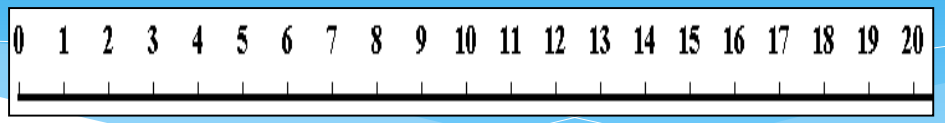
* Read, write, order and compare numbers up to 10 000 000 (not in any previous primary curriculums);
* Multiple / divide 4 digits by a 2-digit number using the formal written methods (not in any previous primary curriculums);
* Add and subtract fractions with different denominators and mixed numbers; multiply simple pairs of proper fractions; divide proper fractions by whole numbers (not in any previous primary curriculums);
* Calculate the area of parallelograms; calculate, estimate and compare volumes of cubes and cuboids using standard units (cm^3/m^3) - not in any previous primary curriculums;
* Illustrate and names parts of circles, including diameter, radius and circumference (not in any previous primary curriculums).

Calculation Strategies

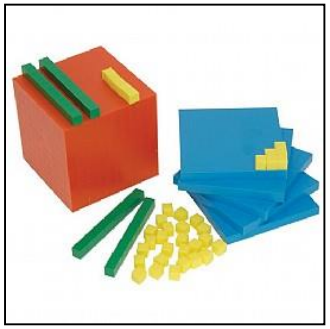
* There are a variety of methods we have previously taught children to use when calculating, using the four arithmetic operations;
* If your child cannot use the method then they will secure the year groups before method before moving on

Resources

Numicon

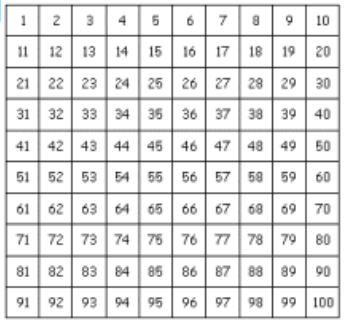


Number line



Dienes

Counters



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

100 square

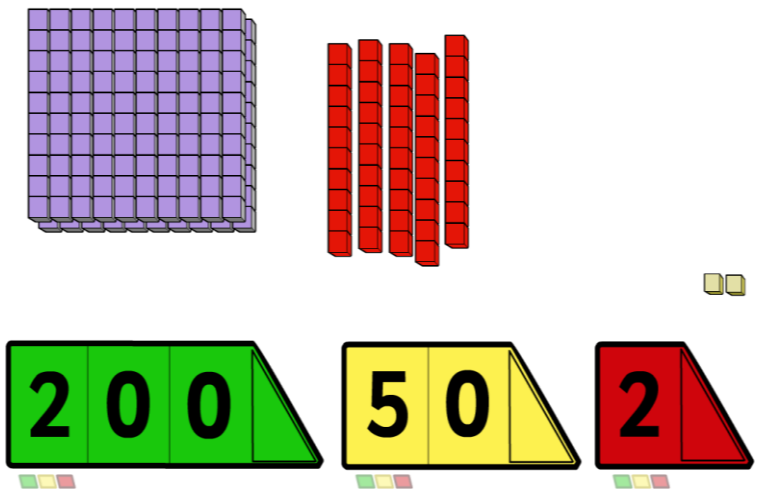
Place value cards

Interactive computer resources

Beadstrings

Place Value

We use place value cards, and numicon or dienes to help understand the value of each digit in a number.



Our Calculation Policy

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Examples of test and assessment questions…

* Arithmetic Test results and comments!

SATS tests done in May Year 2 low key, not sent away this year for marking plus teacher assessment.

You are notified of result.

SATS tests in may Year 6 – presentation to follow next term

How You Can Help

* Leaflet

Thank you for coming and your continued support.

ANY QUESTIONS?

PLEASE MAKE SURE YOU TAKE AWAY YOUR PACK TO SUPPORT YOUR CHILDREN.