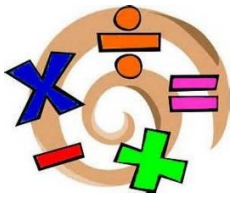
Learn Its



Year 3 Autumn term

The aim of these **'Learn Its'**, which are focused on in school and for **Home Learning** is to give the children **regular** but **short practice** at key maths facts and skills. This will help them develop their **confidence** and **recall**, which will in turn help the children to **apply** them in their maths learning.
Wherever we can we want to make this **practice fun** and **practical**, but with increasing opportunities to record their thinking using **visual models** and **number sentences**. There should continue to be lots of opportunities to **talk** about the maths and to show we as adults **enjoy** it too.

Read and write numbers up to 1000 in numerals and in words.

- *Play "Open the book". Open a large book at a random page and read the number. Explain how you know it is that number and what each digit is worth.*
- *Roll a dice 3 times: with the numbers rolled what is the largest and smallest 3 digit number that can be made. Record it in numerals and words.*
- *Spot numbers in the real world that are greater than 100 (e.g. car registrations, house numbers). Practice reading them.*
- *Adult say a number aloud and child write in numerals and words.*

Compare and order numbers up to 1000.

- *Play "Open the book" to find 5 numbers. Write them in order from smallest to largest or vica-versa (Can you use the < smaller than or > larger than sign between the numbers?)*
- *Roll a dice 3 times. How many 3 digit numbers can you make? Can you put them in order either starting with the smallest or largest? < and > signs?*
- *Discuss why house numbers go in order.*

Add and subtract numbers mentally, including: a three-digit number and ones / a three-digit number and tens / a three-digit number and hundreds.

- *Choose a 3 digit number. Roll a dice and add and subtract that number of ones, tens and hundreds from the first number. (e.g. 365 + 4, 365 + 40, 365 +400, 365 – 4 and 365 – 40) What patterns can be spotted?*
- *Adult say aloud a number sentence (e.g. 247 + 40 = or 572 – 60 =) and the child calculates it mentally.*

Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.

- *Practise chanting them when going up or down a set of stairs*
- *Play 'Times Table Tennis' in pairs: taking in turns to say a multiple back and forwards*
- *Draw an array to show the repeated rows of 3, 4 or 8 and record the accumulated total at the end of each row*
- *Practise on "Time Tables Rockstars"*

Recognise, find and write fractions of a set of objects.

- *With a set of practical objects on a tray or plate (e.g. Lego pieces, counters, peas!) Can you split them into 2 halves, 3 thirds, 4 quarters?*
- *"Sort your socks". Put your socks into different colour piles. How many socks have you got in total? What fraction of them are are black, white, blue…?*
- *Lego fractions: can you find a block that is half the size or another? A third? A quarter?*

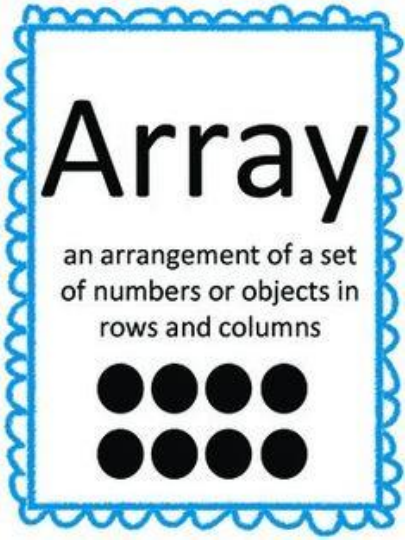
Estimate and read time with increasing accuracy to the nearest minute.

- *"Stop: clock time" One day a week whenever you see a clock stop and tell the time.*
- *"Watch expert". The child wears a watch and whenever they are asked by anyone during the day they have to say what the time is.*

Draw 2D shapes and make 3D shapes using modelling materials e.g. cardboard, plasticine or playdough, wrapping paper…

- *2D shapes include: square, triangle, rectangle, circle, pentagon, hexagon, octagon, decagon*
- *3D shapes include: cube, cuboid, sphere, triangular prism, square based pyramid, cylinder, triangular based pyramid*
- *Once made describe the properties (2D: sides and corners. 3D: faces, edges and vertices) to prove it is that shape.*
- *"What shape is in my head?" One person describes the properties of a shape and the other has to draw / mould and name the shape.*
- *"Shape hunt". Can you find an example of every 2D and 3D shape in the room? In your house?*

Bar Model



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