

## Descriptors to assess children's progress

**Emerging** – beginning to understand the learned concepts.

**Secure** – understands the learned concepts well.

**Advanced** - can apply their knowledge to routine and non-routine problems, investigates, solves, explains and reasons.

Emerging

Secure

Advanced



## How can I help my child?

Look for opportunities around you to help your child:

- Count everyday objects, sort them into groups



- Look for numbers



- Share food, split into fractions



- Measure things



- Use coins to pay for items



- Identify shapes and symmetry around you



## Where can I find more information?

There is lots of information available on the internet. Here are just some websites you might find helpful. They include a range of engaging games linked to the curriculum.

### MATHS WEBSITES

[www.mad4maths.com](http://www.mad4maths.com)  
[www.maths-games.org](http://www.maths-games.org)  
[www.topmarks.co.uk](http://www.topmarks.co.uk)  
[www.mathletics.co.uk](http://www.mathletics.co.uk)  
[www.themathsfactor.com](http://www.themathsfactor.com)  
[www.mathsforumsanddads.co.uk](http://www.mathsforumsanddads.co.uk)  
[www.whiz.com](http://www.whiz.com)

[www.ictgames.com](http://www.ictgames.com)  
[www.bbc.co.uk/schools](http://www.bbc.co.uk/schools)  
[www.crickweb.co.uk](http://www.crickweb.co.uk)  
[www.counton.org](http://www.counton.org)  
[www.mathzone.co.uk](http://www.mathzone.co.uk)  
[www.mathsplayground.com](http://www.mathsplayground.com)  
[www.lancsngfl.ac.uk](http://www.lancsngfl.ac.uk)  
[www.childparenting.about.com](http://www.childparenting.about.com)

### DEVELOPING MASTERY OF MATHS

[www.nrich.maths.org](http://www.nrich.maths.org)  
[www.mathematicshed.com](http://www.mathematicshed.com)

# Maths for Parents



KS1 & KS2

## What is at the core of the new curriculum?

### Fluency

Able to remember quickly.  
(e.g. number bonds, times tables, etc.)

### Reasoning

Thinking about which concept they can use to solve a problem.

### Problem solving

Ability to solve everyday and puzzle types problems.

## What topics we cover in KS1?

### Number

Number and place value



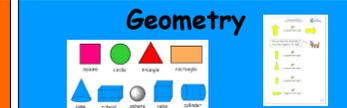
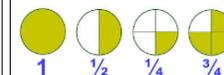
Addition and subtraction



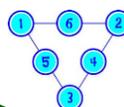
Multiplication and division



Fractions



## Mastery of Maths - depths of understanding



|    |    |    |     |
|----|----|----|-----|
| 2  | 7  | 6  | →15 |
| 9  | 5  | 1  | →15 |
| 4  | 3  | 8  | →15 |
| 15 | ↓  | ↓  | ↓   |
| 15 | 15 | 15 | 15  |



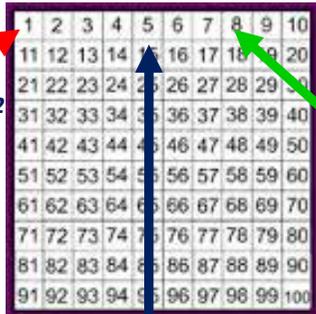
How do you know? What do you need to do to solve this? How can you prove it? What tools can you use? Explain it.

# LOOK

## Key Maths Vocabulary in KS1 & KS2

### Number, place value, addition and subtraction

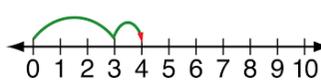
#### 100 square



#### Addition

|      |       |
|------|-------|
| tens | ones  |
| 4    | 5     |
| +2   | 3     |
| Stop | Start |

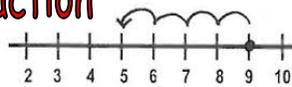
$3 + 1 = 4$



8 is after 7

#### Subtraction

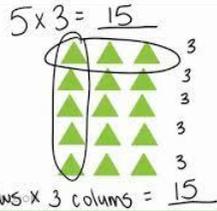
|      |      |
|------|------|
| Tens | Ones |
| 7    | 8    |
| -4   | 5    |
| 3    | 3    |



5 is in between 4 and 6

### Multiplication/Division 2, 3, 5, 10 times tables

#### Multiplication

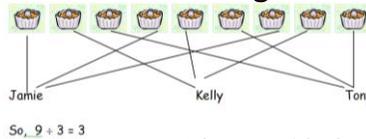


$L + L$  is:  $\begin{matrix} \triangle & \triangle \\ \triangle & \triangle \end{matrix}$  2 groups of  $L$   
 $2 + 2 + 2 + 2$  is:  $\begin{matrix} \triangle & \triangle & \triangle & \triangle \\ \triangle & \triangle & \triangle & \triangle \end{matrix}$  4 groups of 2

$2 \times 4 = 8$

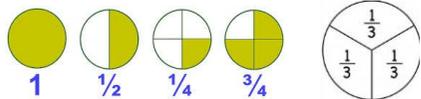
$4 \times 2 = 8$

#### Division/sharing



#### Doubling and halving

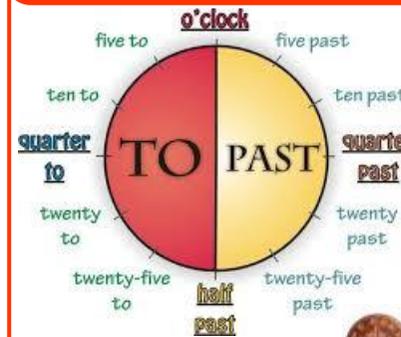
### Fractions



$\frac{1}{2}$  of 6 = 3

$\frac{2}{4} = \frac{1}{2}$

### Measures



#### Time

today  
yesterday  
tomorrow

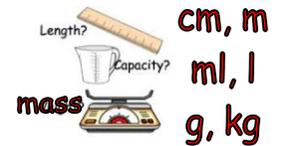


| Months of the Year |           |
|--------------------|-----------|
| January            | July      |
| February           | August    |
| March              | September |
| April              | October   |
| May                | November  |
| June               | December  |

#### Money



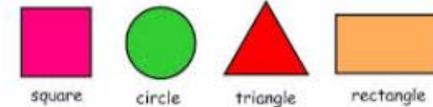
#### Measures



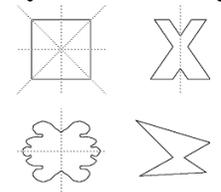
Length? cm, m  
Capacity? ml, l  
mass g, kg

### Geometry

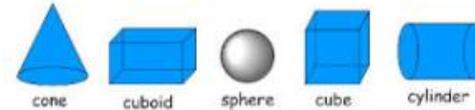
#### 2D shapes



#### symmetry

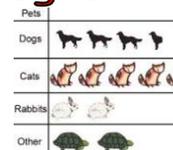


#### 3D shapes



### Statistics

#### Pictogram



#### Tally chart

| Favorite Pets |             |        |
|---------------|-------------|--------|
| Pet           | Tally Marks | Number |
| Cats          |             | 10     |
| Dogs          |             | 4      |
| Rabbits       |             | 6      |

#### Block graph

