



Tonwell St Mary's CE Primary School

Maths Fluency
Information Session for Parents



What is maths fluency?



Mental maths skills
Number sense/making links
Spotting patterns
Using what you know



National Curriculum Expectations for number



By the end of EYFS:

Add and subtract two 1 digit numbers

Count on and back in steps of 1

Double, halve and share objects/numbers



National Curriculum Expectations for number



By the end of Y2:

Pairs to 20

Count in steps of 2, 3, 5, 10

Time table facts for 2, 5, 10

Place value to 100



National Curriculum Expectations for number



By the end of Y4:

All times table and related division facts to 12×12

Add and subtract two 4 digit numbers

Multiply 3 digit by 1 digit number

Place value to 1000



National Curriculum Expectations for number



By the end of Y6:

Multiply and divide a 4 digit by 2 digit number
Place value to 10,000,000



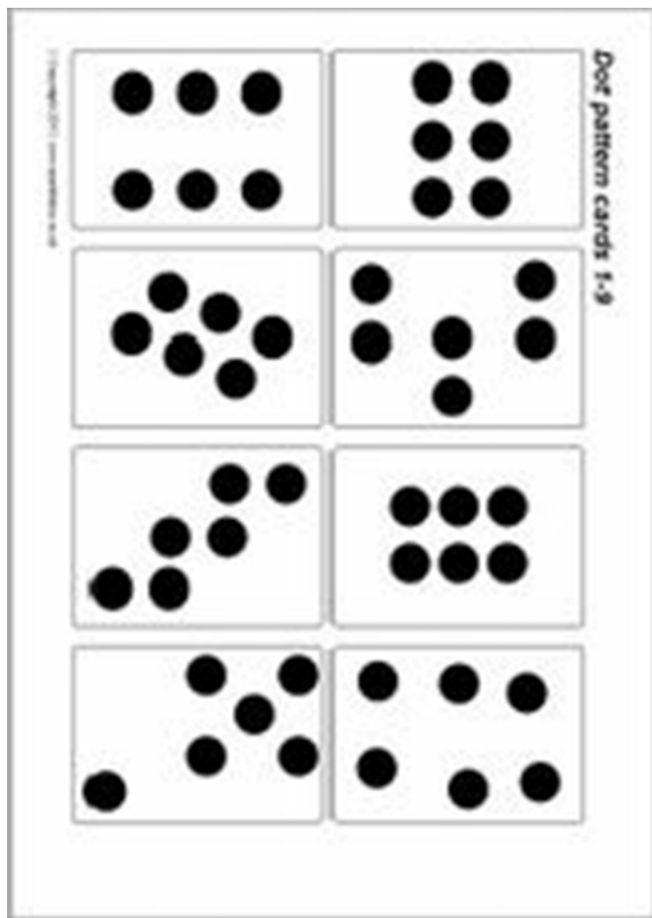
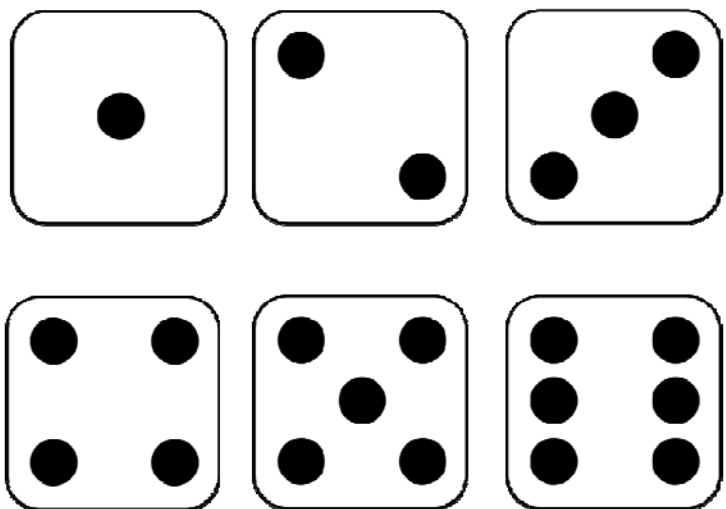
Key Skill: Subitizing



The skill of being about to 'see' a small number of dots or objects and know how many there are without counting.

Helps with spotting patterns and number pairs/bonds

E.g. patterns on dice and playing cards





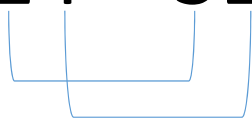
Key Skill: Partitioning



The skill of splitting larger numbers into smaller units to make them easier to work with.

Helps with mental calculations

E.g. $24 + 31 =$



$$20 + 4$$

$$30 + 1$$



$$34 - 7 =$$

$$7 = 4 + 3$$

$$34 - 4 - 3 =$$

$$87.3 - 0.5 =$$

$$0.5 = 0.2 + 0.3$$

$$87.3 - 0.3 - 0.2 =$$





Key Skill: Rebalancing



The skill of rebalancing to make the numbers more 'friendly'

$$\text{E.g. } 46 + 9 =$$

$$9 = 10 - 1$$

$$46 + 10 - 1 =$$



$$2743 - 999$$

$$999 = 1000 - 1$$

$$2743 + 1000 - 1 =$$



Handwritten work on grid paper:

$$\begin{array}{r} 7 \quad 9 \\ 18 \cdot 00 \\ - 7 \cdot 62 \\ \hline 10 \cdot 38 \end{array}$$

but take 1p
from each
amount

$$\begin{array}{r} 17 \cdot 99 \\ - 7 \cdot 61 \\ \hline 10 \cdot 38 \end{array}$$



End of Key Stage Tests (SATs)



Year 2

Paper 1 Arithmetic (no time limit)

Paper 2 Reasoning (no time limit)

Year 6

Paper 1 Arithmetic (30 mins)

Paper 2 Reasoning (40 mins)

Paper 3 Reasoning (40 mins)



Helping your child at home



Mathletics

All children from Y1-Y6 have a log in paid for by school.

www.mathletics.co.uk



Helping your child at home



Board games that use dice and counting (Snakes and Ladders/Frustration)

Dice games (roll two dice and add/subtract/multiply numbers, target number)

Dominoes

Card games (Make 21, Countdown, Times Table Showdown, What do you add to make...?)



Please take time to look at resources

Thank you for coming!