

# Maths Information Session

## April 26<sup>th</sup> 2017

- Introduction – Mrs McMurtry
- How we teach maths
- Year group expectations
- How to support your child at home
- Resources to support maths in school

# How we teach maths...

- ▶ 4 days per week in every year group
- ▶ Maths curriculum covers number, calculating, shape space and measures.
- ▶ Learning is a mixture of mental maths, practical and recorded activities: concrete (manipulatives) – pictorial representations – abstract (recording calculations)
- ▶ Includes lots of problem solving and reasoning about number - Entry and Exit tickets - Greater depth.
- ▶ Jelly Bean – Flexible task based grouping system.
- ▶ Collecting a range of evidence including observations and photographic evidence – focus on mathematical language.
- ▶ Resources including Numicon.
- ▶ Intervention and extension groups (during lessons and at other times of the day).
- ▶ Outdoor Maths area – used by all classes.

# Flexible grouping system



Lemon



Blueberry



Lime



Cherry



Peach

# Year Group Expectations EYFS - Reception

- ▶ Children need to be able to:
  - ▶ Confidently count with and order numbers to 20.
  - ▶ Say one more or less than a number to 20.
  - ▶ Add and subtract by counting on and back.
  - ▶ Solve problems including doubling, halving and sharing.
  - ▶ Recognise and name 2D and 3D shapes.
  - ▶ Talk about pattern, size, weight, capacity, time and money.
- ▶ End of year assessment – Emerging, Expected or Exceeding.

# Year Group Expectations

## Year One

- ▶ A few examples of what children need to be able to:
  - ▶ Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number.
  - ▶ Count in multiples of twos, fives and tens.
  - ▶ Represent and use number bonds and related subtraction facts within 20.
  - ▶ Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.
  - ▶ Recognise, find and name a half and a quarter as one of four equal parts of an object, shape or quantity.
  - ▶ Compare, describe and solve practical problems for mass, capacity, length, time and money.
- ▶ End of year assessment – Year One Emerging, Developing or Secure. If working above they will be working At Greater Depth.

# Year Group Expectations -Year Two

- ▶ Children need to be able to:
  - ▶ **Partition two-digit numbers into different combinations of tens and ones. (e.g. 23 is the same as 2 tens and 3 ones ).**
  - ▶ **Add 2 two-digit numbers within 100 (e.g.  $48 + 35$ ) and can demonstrate their method**
  - ▶ **Check that their answers to a calculation are reasonable (e.g. knowing that  $48 + 35$  will be less than 100).**
  - ▶ **Subtract mentally a two-digit number from another two-digit number when there is no regrouping required (e.g.  $74 - 33$ ).**
  - ▶ **Recognise the inverse relationships between addition and subtraction and use this to check calculations and work out missing number problems (e.g.  $\Delta - 14 = 28$ ).**
  - ▶ **Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables to solve simple problems, (e.g. knowing they can make 7 groups of 5 from 35 blocks and writing  $35 \div 5 = 7$ )**
  - ▶ **identify  $\frac{1}{3}$ ,  $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{2}{4}$   $\frac{3}{4}$  and knows that all parts must be equal parts of the whole.**
  - ▶ **Use different coins to make the same amount (e.g. pupil uses coins to make 50p in different ways; pupil can work out how many £2 coins are needed to exchange for a £20 note).**
  - ▶ **Read scales in divisions of ones, twos, fives and tens in a practical situation**
  - ▶ **Read the time on the clock to the nearest 15 minutes.**
  - ▶ **Describe properties of 2-D and 3-D shapes**
- ▶ End of year assessment – Year Two Emerging, Developing or Secure. If working above they will be working at Greater Depth. Reported as WTS (Working Towards

# How to support maths at home

- ▶ Rainbow Recall.
- ▶ Year group maths challenges
  - ▶ Practical, problem-solving tasks – adapt as you see fit!
  - ▶ Mathematician of the week.
- ▶ EYFS Marvellous Maths Moment stickers.
- ▶ Doodle Maths App.
- ▶ Board games.
- ▶ Everyday, practical and fun!
- ▶ Open afternoons in the summer term.

# Resources

- ▶ Numicon.
- ▶ Number lines and 100 squares.
- ▶ Number cards and dice.
- ▶ Rods and cubes.
- ▶ 10s frames.
- ▶ ICT links.
- ▶ Shape, space and measure resources.
  
- ▶ Come and have a look!


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