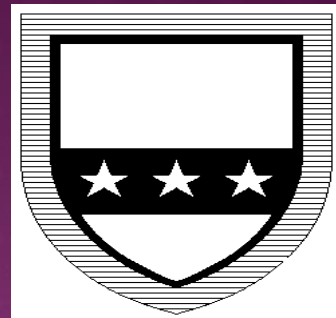




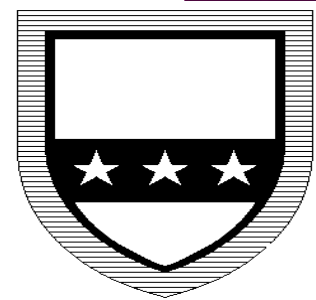
# MATHEMATICS

# WORKSHOP

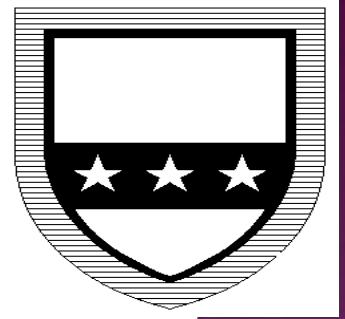
Poulton Lancelyn Primary School

# NATIONAL CURRICULUM CHANGES

---

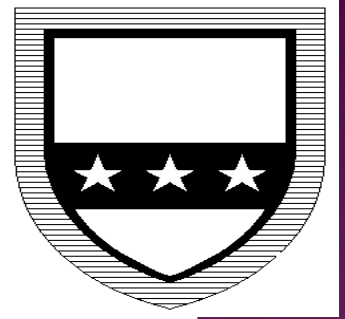


- ◉ New Curriculum introduced from September 2014 for all pupils.
- ◉ Children must be mathematically fluent.
- ◉ Expectations have changed. Coverage and skills have been “pushed down.”
- ◉ Need to know booklets highlight the expectations for each year group.
- ◉ No longer using levels. Emerging, Expected, exceeding.



# SCHOOL CHANGES

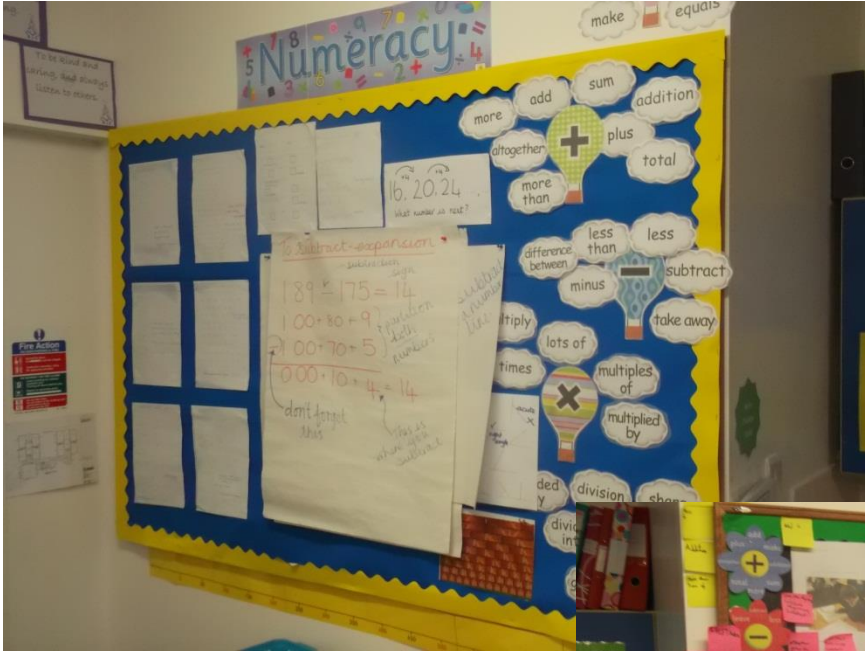
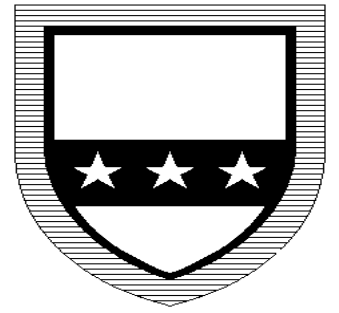
- ◉ Mathematics priority development area. Ofsted 2015
- ◉ Maths calculation policy.
- ◉ Long term plans for each year group.
- ◉ 2 maths lessons per day - main and arithmetic
- ◉ More focus on number to develop number fluency.
- ◉ Intervention support.

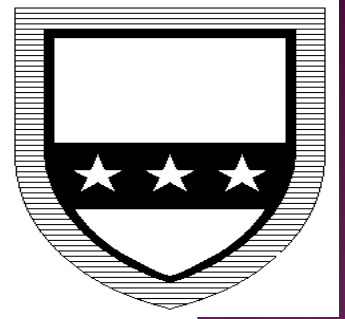


# WRITTEN MATHEMATICS

- ◉ Detailed breakdown for each year group in Mathematics policy. On website.
- ◉ Summary document highlights key stages.
- ◉ Mathematics session in each year group will outline the calculation methods used within that group.

# CLASSROOM ENVIRONMENT





# MENTAL MATHEMATICS

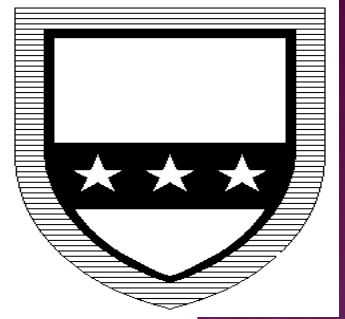
- ◉ Extra emphasis on mental mathematics.

## Addition

- Counting on
- Doubling and adjusting
- Rounding and adjusting
- Partitioning
- Number bonds

Mental Maths

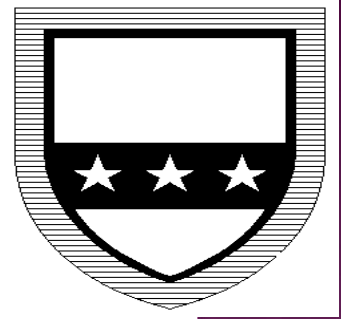
Songs



# TIME TABLES

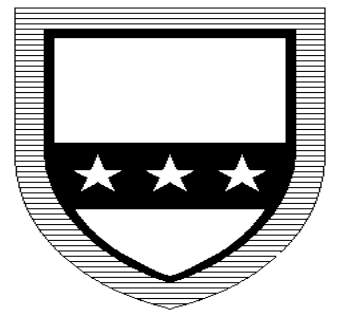
- ◉ Times tables rock starz
- ◉ Some aspects tested (motivates some).
- ◉ Can be used as an assessment tool.
- ◉ Ensures pupils know their multiplication and division facts
- ◉ 2019 - new times tables test for Year 4 pupils. Expected to know  $12 \times 12$ .

# USING AND APPLYING



- Ensures that pupils apply the skills developed from other lessons.

|     |     |     |     |
|-----|-----|-----|-----|
| 67  | 44  | 8   | 49  |
| 225 | 152 | 17  | 251 |
| 132 | 99  | 133 | 132 |
| 297 | 595 | 175 | 145 |



# USING AND APPLYING EXAMPLES

**This simple algebra question is confusing the internet — *can you answer it?***

$$\text{Horse} + \text{Horse} + \text{Horse} = 30$$

$$\text{Horse} + \text{Horseshoe} + \text{Horseshoe} = 18$$

$$\text{Horseshoe} - \text{Boots} = 2$$

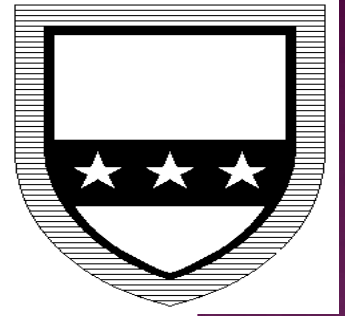
$$\text{Boots} + \text{Horse} \times \text{Horseshoe} = ??$$



What is the correct answer?

# HOME HELP

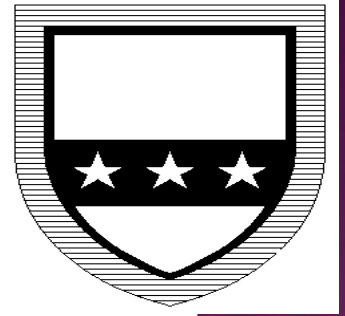
---



- ◉ Technology (mathletics, apps)
- ◉ Homework
- ◉ Time
- ◉ Shopping
- ◉ **Times tables**
- ◉ Doubling

# IMPORTANCE OF READING

---



- ◉ Real life problems involve being able to read.
- ◉ Trend of poor readers = poor mathematicians.

# WORKSHOPS

- ⦿ Year 1
- ⦿ Year 2
- ⦿ Year 3
- ⦿ Year 4
- ⦿ Year 5
- ⦿ Year 6 - countdown, making numbers, problem variety activity