Maths Mastery

Parent Information Session
31st January 2023

Inclusion, Challenge, Positive Minds

The Maths Curriculum

Place Value

Addition and subtraction

Multiplication and division

Fractions, decimals and percentages

Geometry

Measure

Statistics

Ratio and algebra

What does it mean to 'master' something?

- You know how to do it
- It becomes automatic and you don't need to think about it- e.g driving a car
- You're really good at doing it
- You can show someone else how to do it

What does it mean to 'master' maths?

- Pupils of all ages acquire a deep, long-term, secure and adaptable understanding

- Pupils reason, makes connections and build deep conceptual knowledge - they can represent the maths in multiple ways, apply the concept to new problems in unfamiliar situations and select which mathematical approach is more effective.

Why 'Teaching for Mastery'?

Beech Hyde:

- Mathematical language improved
- Deeper and more thorough understanding of concepts
- Increased confidence
- Small steps provide time for processing and consolidating
- Fluency, reasoning and problem solving skills have improved
- Ability to apply their knowledge to a range of situations
- Engagement / enjoyment - pupils talk positively about maths
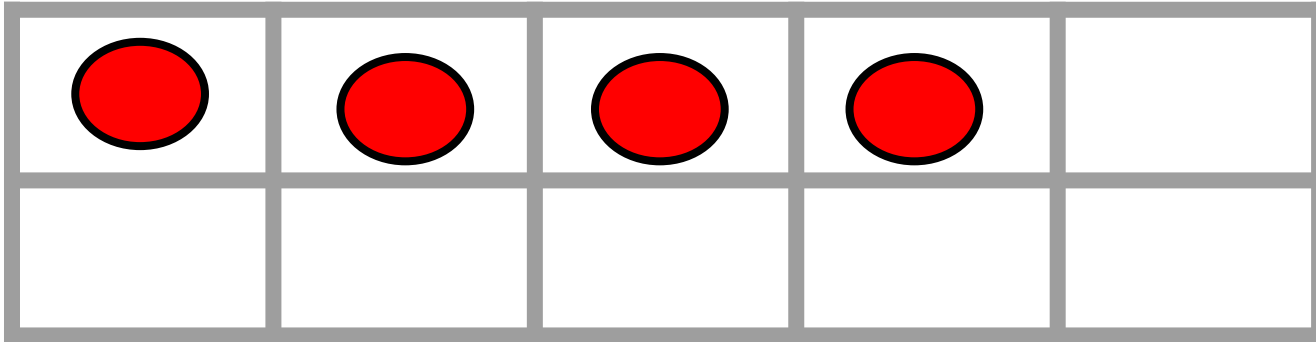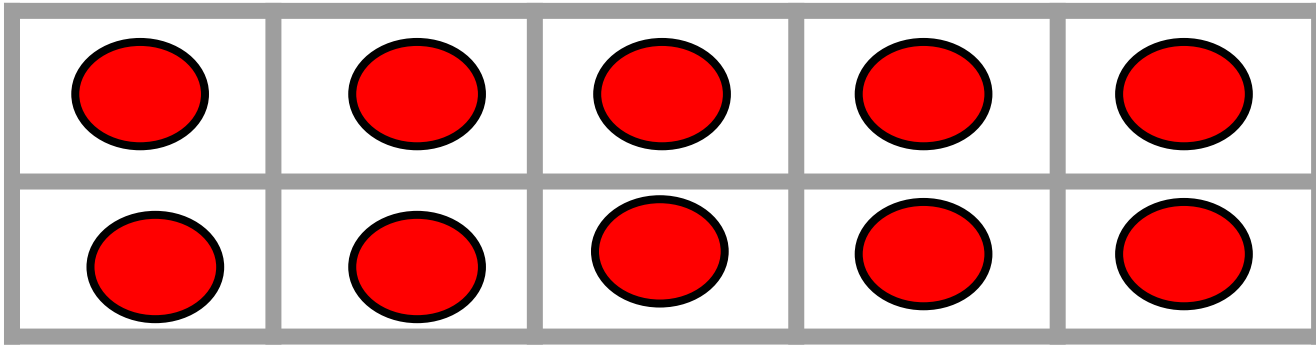
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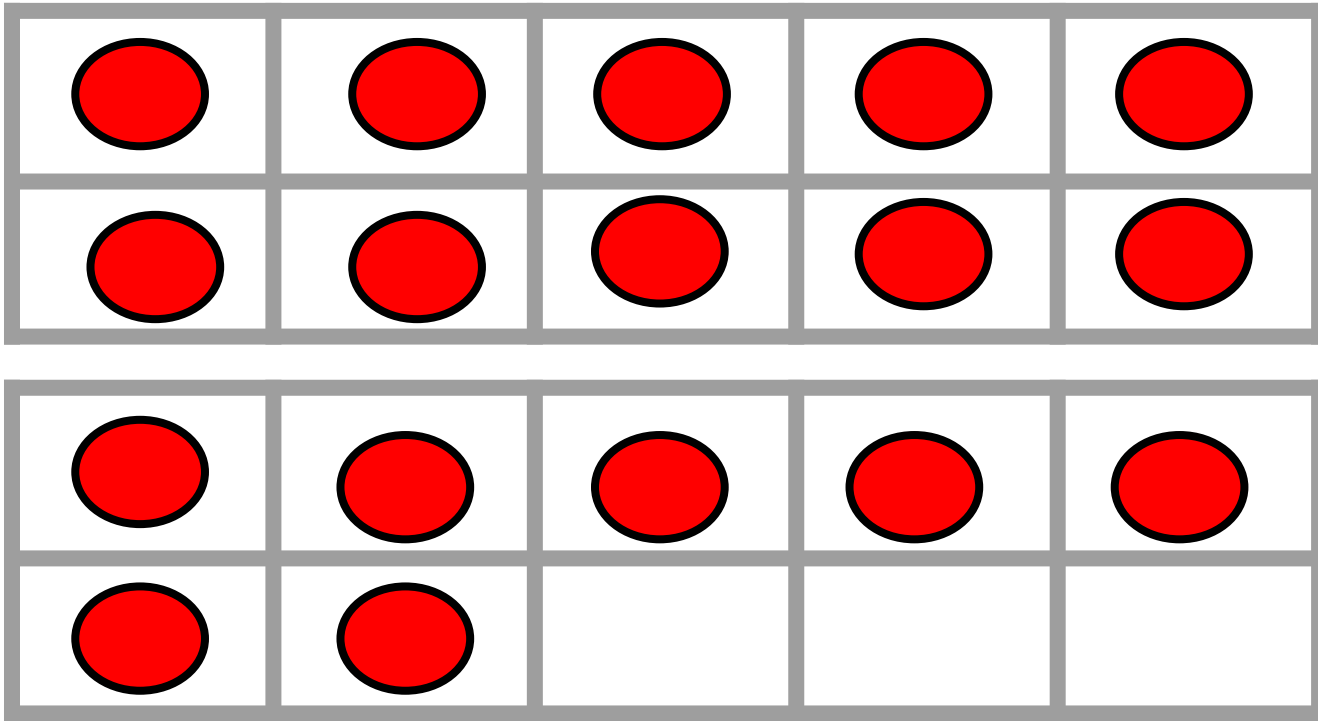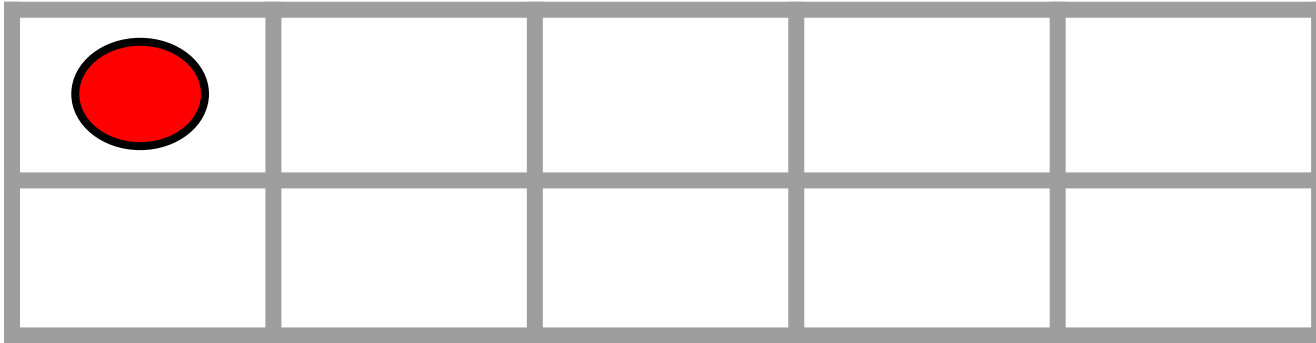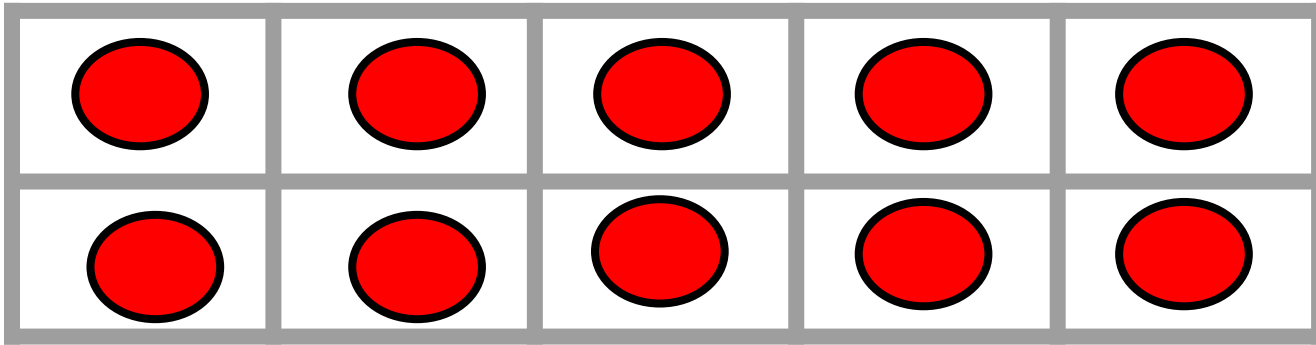
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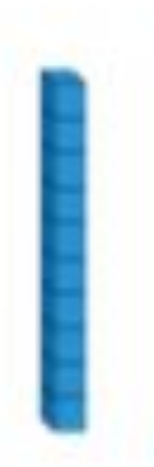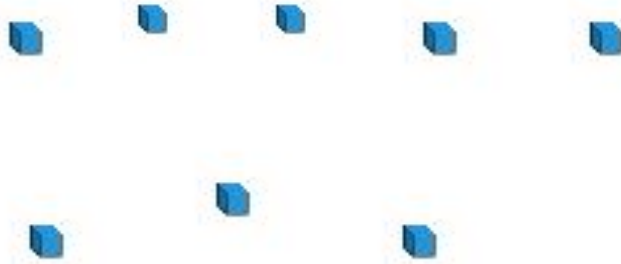There is ___ ten and ___ ones. The number is ___ .

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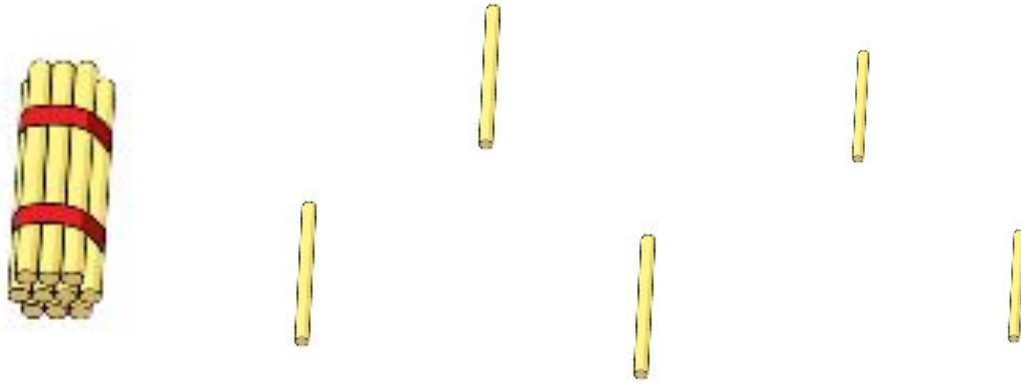
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WALT multiply by 10

5 x 10	9 x 10	2 x 10
3 x 10	6 x 10	10 x 10
0 x 10	8 x 10	12 x 10

6 x 10

_____ by _____ means the digits move ____ place to the _____.

____ x _____ is _____.

18 x 10

_____ by _____ means the digits move ____ place to the _____.

____ x _____ is _____.

43 x 10

_____ by _____ means the digits move _____ place to the _____.

_____ x _____ is _____.

127 x 10

_____ by _____ means the digits move ____ place to the _____.

____ x _____ is _____.

3,405 x 10

_____ by _____ means the digits move ____ place to the _____.

____ x _____ is _____.

Activity 1

1).   9 x 10

2). 21 x 10

3). 56 x 10

4). 374 x 10

5). 4,862 x 10

6). 8,019 x 10

Activity 2

1). __ x 10 = 230

2). __ x 10 = 2950

3). __ x 10 = 6830

4). __ x 10 = 70230

Challenge

True or false?

10 lots of 222 and 156 lots of 10 = 3078

Prove it!

Elements of Mastery

- Whole class together
- Small steps in learning
- Longer time on key topics
- Quick intervention
- Vocabulary
- Stem sentences
- Recall of facts
- Range of activities, including challenge

Ways to help your children at home

- Be positive about maths
- Make maths fun
- Always praise the effort rather than the answer - this encourages them to work hard and know that it's ok to make mistakes
- Encourage the children to teach you - see if they can tell you what they have learnt - this will ensure the methods are the same as we are teaching in school
- Encourage the correct use of mathematical vocabulary

Ways to help your children at home

- Use maths in everyday life - shopping, cooking, measuring, travelling, counting
- Involve your child in everyday problem solving - planning a party, cooking dinner
- Play games that involve numbers - snakes and ladders, playing cards

Ways to help your children at home

- Help your child to learn their number facts so they can recall them automatically - dice, playing cards, flashcards, apps, rhymes
  - Number bonds
  - Addition and subtraction facts up to 20
  - Doubles / halves
  - Times tables

Equipment that may be useful at home

Tape measure and ruler

Magnetic numbers

Unusual dice

Dominoes

Guess Who

Thermometer

A prominent clock

A calendar

Board games with dice/spinner

Pack of playing cards

Calculator

Measuring jug

Scales

Dried beans, pasta, counters

Resources / Information

National Numeracy

www.nationalnumeracy.org.uk/helping-children-maths

Oxford Owl

https://home.oxfordowl.co.uk/maths

Any questions?