

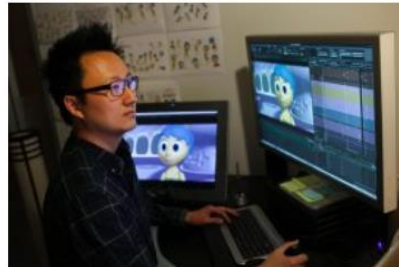


# Supporting your child with Mathematics

# More than 2 million jobs require a good understanding of mathematics.



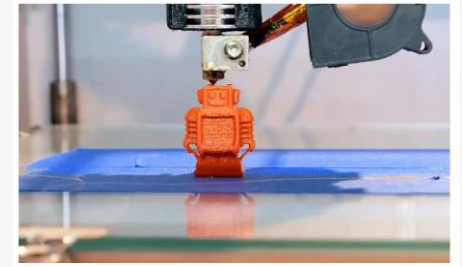
Geologist



Animator



Climatologist



Technology and Design industry



Architect



Computer graphics engineer



Air Traffic Controller



Mechanical Engineer



Chemical Engineer



Nuclear Engineer

# How do children become proficient in number?



Basic number facts in **EYFS** are the key to opening up Mathematics.



**Fluency** and **proficiency** in core number facts that can be recalled at speed.



**Rehearsal** of skills they already know.

# What has changed in the National Curriculum in the last 8 years?

- The introduction of **more complex maths at an earlier age**, as well as the addition of several strategies in primary school that used to be taught at secondary school.
- A focus on **mastery, problem-solving** and **mathematical vocabulary** to ensure a deep understanding of mathematical concepts, rather than learning strategies and facts by off by heart
- A focus on **understanding mathematical structures**: children are now taught to understand the logic behind why  $4 \times 4 = 16$ , rather than just recalling it from memory.

# Practice makes skilled

- What do we do in school to ensure children become skilled mathematicians?



Clear teaching methods for the 4 operations in each year group - our "**Calculation Policy**"



**Additional maths sessions** during the day in all classes which focus on both practise of facts and procedures just taught, as well as content we need to practise from previous years.



The use of **practical equipment** to expose the structure of calculations.

# How can you support at home?

Some areas of mathematics can be easily practised at home to strengthen recall and fluency.

## **EYFS:**

- ❖ Use concrete objects to help practise number bonds to 10.
- ❖ Counting stories and rhymes.
- ❖ Count objects up to 20, varying where the count starts - can you carry on counting from 3?
- ❖ Practise saying how many objects in a group without counting (up to 10 objects)

## **KS1:**

- ❖ Counting forward and backwards: up to 30 in Year 1 and up to 100 in Year 2
- ❖ Use bits of card or paper to muddle up and reorder numbers in sequence.
- ❖ Practise counting objects by touching as they count (bits of pasta, buttons!)
- ❖ Vary where they start counting or ordering.
- ❖ Number bonds to 10 - finger maths is fun!

# How can you support at home?

Some areas of mathematics can be easily practised at home to strengthen recall and fluency.

## **Key Stage 2**

- ❖ Cultivate accuracy by getting your child to measure anything and everything with a ruler or a tape measure.
- ❖ Dice games to practise number facts.
- ❖ Times Table practise - the more you practise, the better. Sing it, shout it, whisper it, dance it. Whatever it takes!
- ❖ Real life mathematics.

*'What was the original price of this t-shirt that now costs £18 after it has been reduced by 20%?'*

*'If our shop comes to £47.58 and I pay with a £50 note, how much change should we receive?'*

*'These pineapples cost £2 each and we need 3. How much will they cost altogether?'*

# How will you know what we are doing?

- <https://www.downampneyprimaryschool.co.uk/maths/>



# Maths games

<https://thirdspacelearning.com/blog/fun-maths-games-activities-for-kids/>