Help Your Child Love Maths!

National Numeracy Champions

How do you feel about maths?

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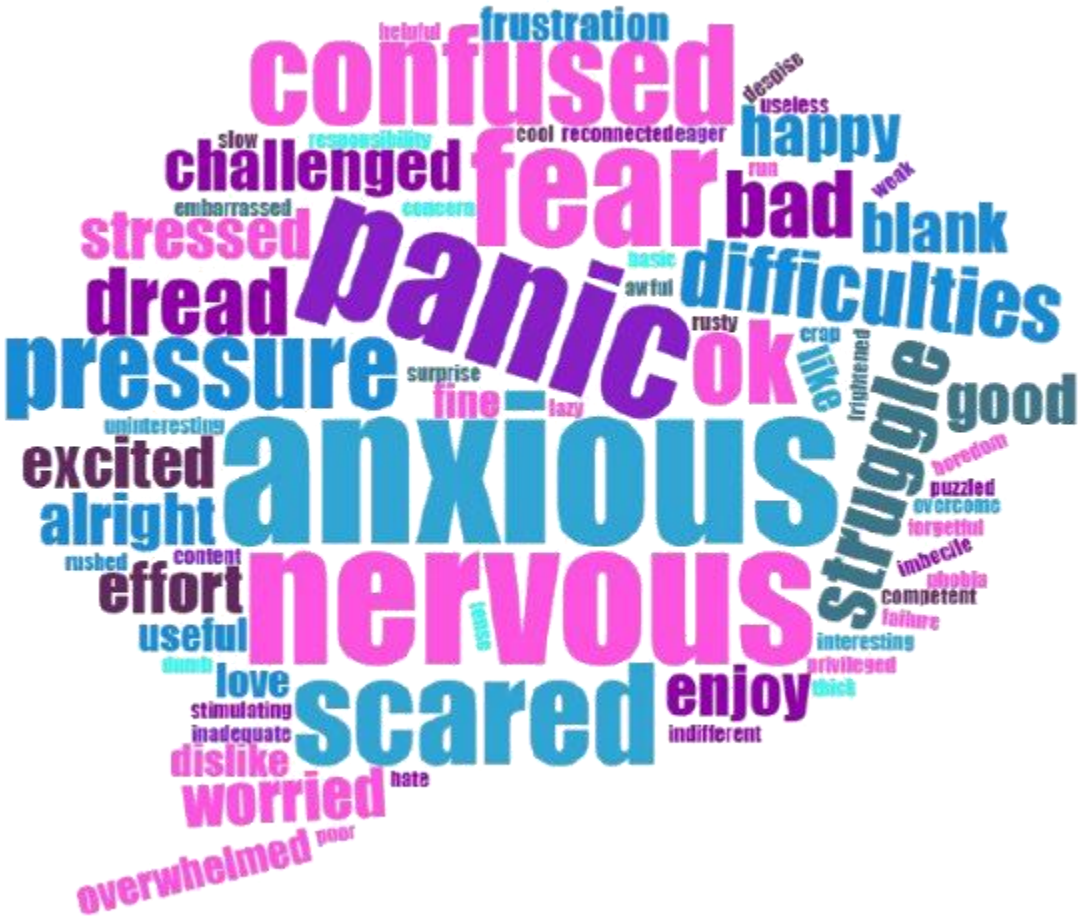

National Numeracy's top tips for families

Point out the maths in everyday life

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Maths in everyday life

Where do we see maths and numbers in everyday life?

"Students' motivation to learn maths is higher among students whose parents discuss how mathematics can be applied to everyday life," (The Programme for International Student Assessment 2013).

Maths in everyday life

Planning journeys

- Using time
- Reading timetables

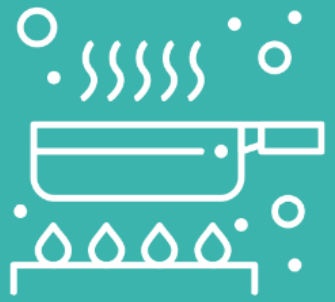
Shopping

- Recognising coins
- Checking change
- Working out sale prices
- Using a budget

D.I.Y.

- Measuring materials
- Using ratios to mix materials

Maths in everyday life



Cooking

- Counting and weighing ingredients
- Using metric and imperial measurements
- Scaling up recipes

Making financial decisions

- Setting up a monthly budget
- Interest rates

Reading the news

- Understanding graphs
- Understanding facts and figures, including percentages

Be positive about maths

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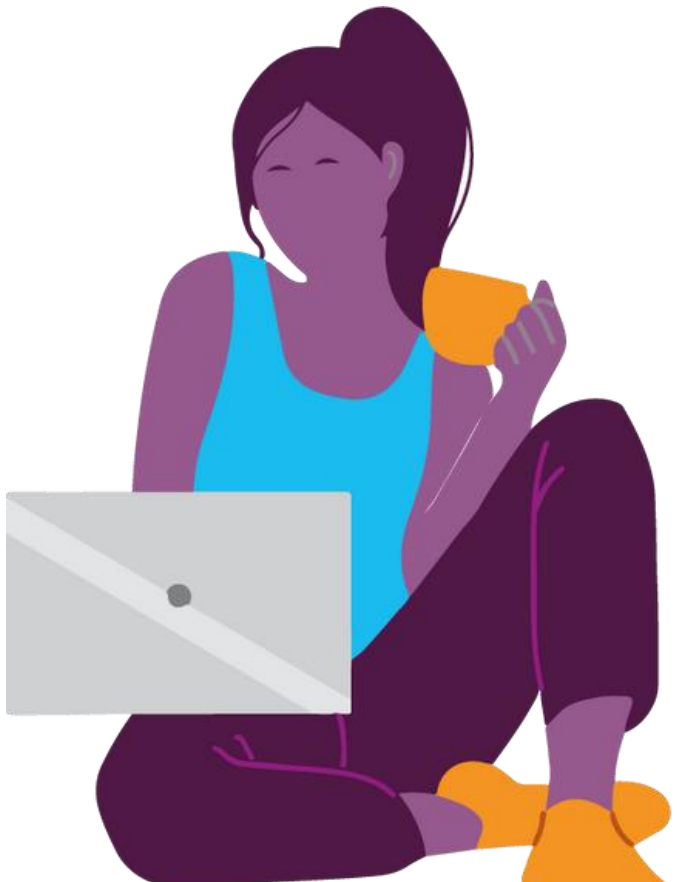
Be positive about maths

"I was never any good at maths at school and it did me no harm."

Be positive about maths

"You won't need to worry about maths once you've finished school."



Be positive about maths

"It's ok. You can't be good at everything. You're better at literacy. Your brother is more of a maths-y person."

Praise effort, rather than talent

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Praise effort, rather than talent

Praising talent:

Well done. You're so clever.

You're naturally really good at this.

It's amazing that maths is so easy for you.

Praising effort:

Well done for working so hard at that.

You've learned so much, well done.

It's great that you kept going with that even when it was tricky.

Growth Mindset

Fixed Mindset

Talent is innate

Some people just can't do certain things

There is no point in trying to improve if you aren't born with the ability

Growth Mindset

Ability is not fixed

You can learn and improve at anything is you put enough time and effort into it

If you put your mind to it, you will be able to improve: ability isn't something you're born with

Boost your own confidence

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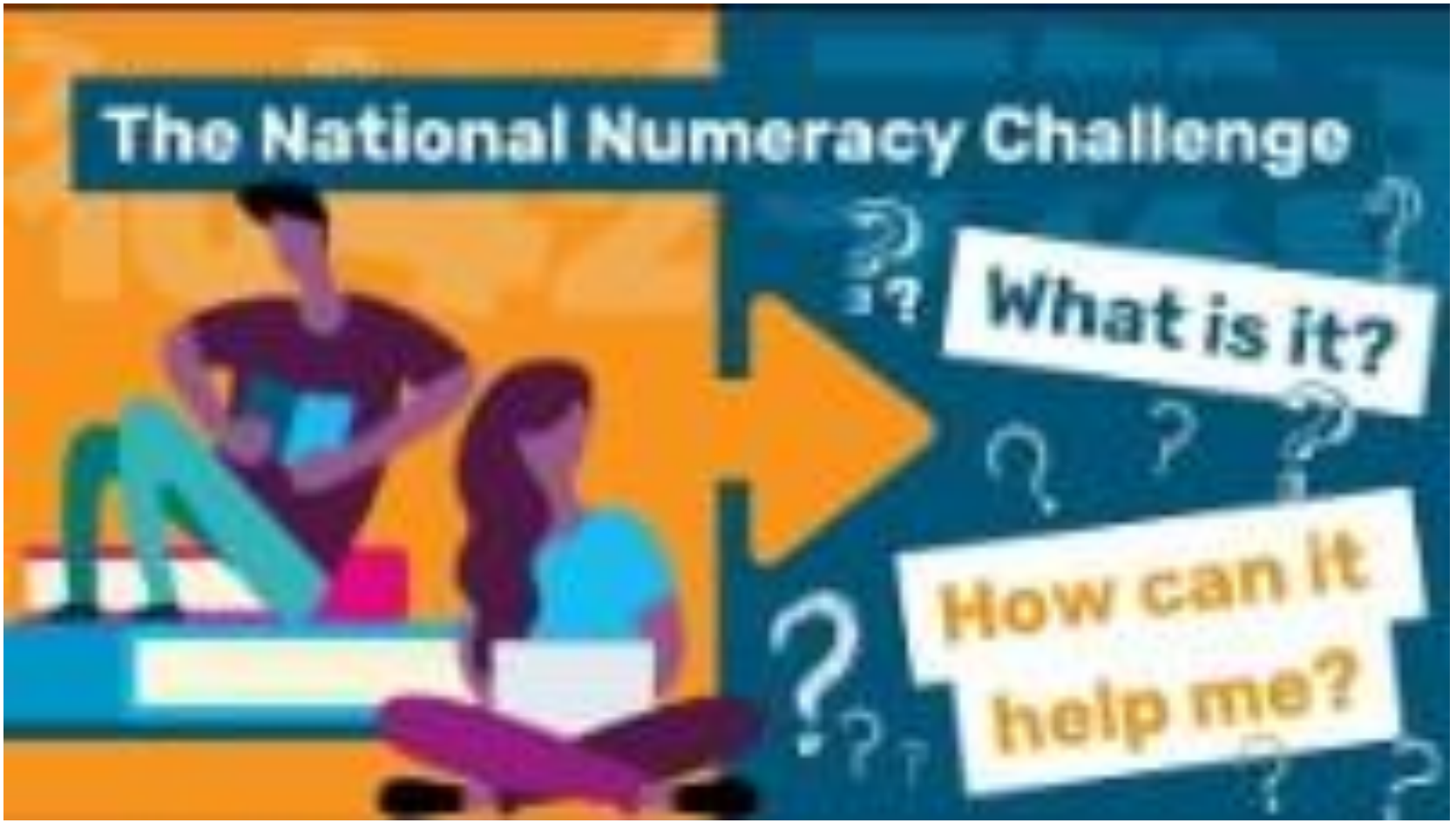
Boost your own confidence



National Numeracy Challenge

National Numeracy Challenge

www.nationalnumeracy.org.uk/challenge/sfpaq

Homework

Proven to improve children's and parents' confidence in maths, this family engagement resource aims to promote enjoyment of maths through discussion and working together on everyday maths.

This activity pack, created by National Numeracy, contains short, fun, 'real life' activities for families to do with their children. They are aligned to the English National Curriculum and compatible with the Scottish Curriculum for Excellence, with a strong focus on problem solving and reasoning.

There are 30 activities, one for each week of the school year. They are organised in this pack so that they get progressively harder - but they can be selected to match the curriculum area on which your children are working.

Bug football

Family Maths Toolkit

The first ever mini beast 5-a-side football tournament is being held.

There are 4 teams – beetles, spiders, woodlice and centipedes.

Beetles have 6 legs; spiders have 8 legs; woodlice have 10 legs; centipedes have 40 legs.

1. How many legs on the pitch when the beetles play the spiders?
2. How many boots do the woodlice team need?
3. Which two teams playing each other would make a total of 250 legs on the pitch?
4. How many legs altogether in the beetles team?
5. The spiders have been sponsored for new boots which cost £20 a pair – how much will this cost for the team?
6. Can you make up another bug team – how many legs in their team?
7. Your team reaches the football final and play the woodlice. How many legs on the pitch?

Family comments:

Curriculum Link

An interesting year

Family Maths Toolkit

What happens if you add up all (one of each) of the Roman numerals?

You will find a very interesting year – do you know what it is?

It is also the only year to contain each Roman numeral once in descending order.

Another interesting year could be the year in which you were born – could you write that in?

Roman numerals? Can you think of any others?

M

I + III = IX

IV + X

Family comments:

Curriculum Link

Read Roman numerals to 1000 (M)