National Numeracy

Getting on with numbers

National Numeracy

Schools & Families Programme

nationalnumeracy.org.uk

Please complete this survey whilst you are waiting!

Aims of the Schools & Families Programme

- To increase pupils':
  - confidence with numbers,
  - positive feelings about maths,
  - awareness of the value of maths outside the classroom.

- To increase parents', carers' and school staff's confidence in supporting children with maths.

- To establish lasting approaches and strategies that will continue in schools beyond the end of the programme.

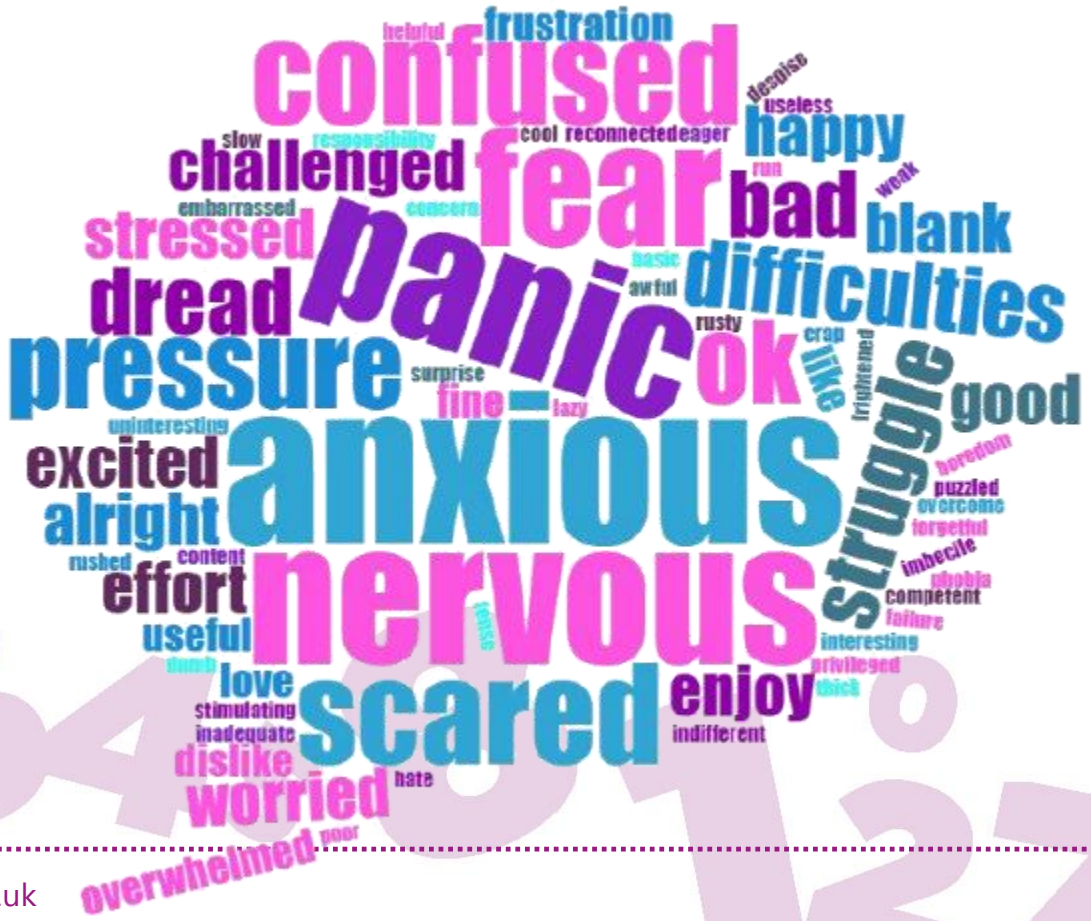
How do you feel about maths?

youtube.com/watch?v=pKdA0LCNg2s&source_ve_path=MTc4NDI0

Discussion

How do you feel about maths?

How do you feel about maths?



National Numeracy's top tips for families

1

Point out maths in the real world

2

Be positive about maths

3

Praise effort rather than talent

4

Improve your own confidence

National Numeracy's top tips for families

https://www.youtube.com/watch?v=NzJNDQFM7bs

Point out the maths in everyday life

National Numeracy Champions

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).

Discussion

Where do we see maths and numbers in everyday life?

Maths in everyday life

Planning journeys

- Using time
- Reading timetables

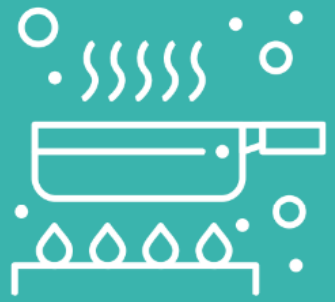
Shopping

- 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

National Numeracy Champions

Be positive about maths

Here are some things people sometimes say to children about maths.

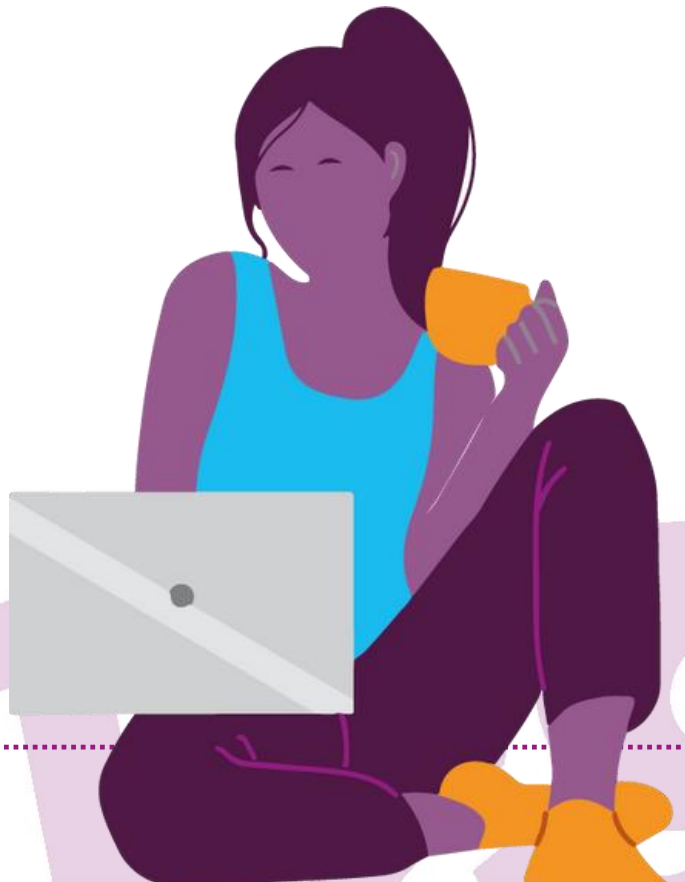
- Have you heard these things being said?
- What could be said instead to encourage positive attitudes in children?

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

"Well done for getting that right. You're so clever."

Praise effort, rather than talent

National Numeracy Champions

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	Growth Mindset
Talent is innate	Ability is not fixed
Some people just can't do certain things	You can learn and improve at anything is you put enough time and effort into it
There is no point in trying to improve if you aren't born with the ability	If you put your mind to it, you will be able to improve: ability isn't something you're born with

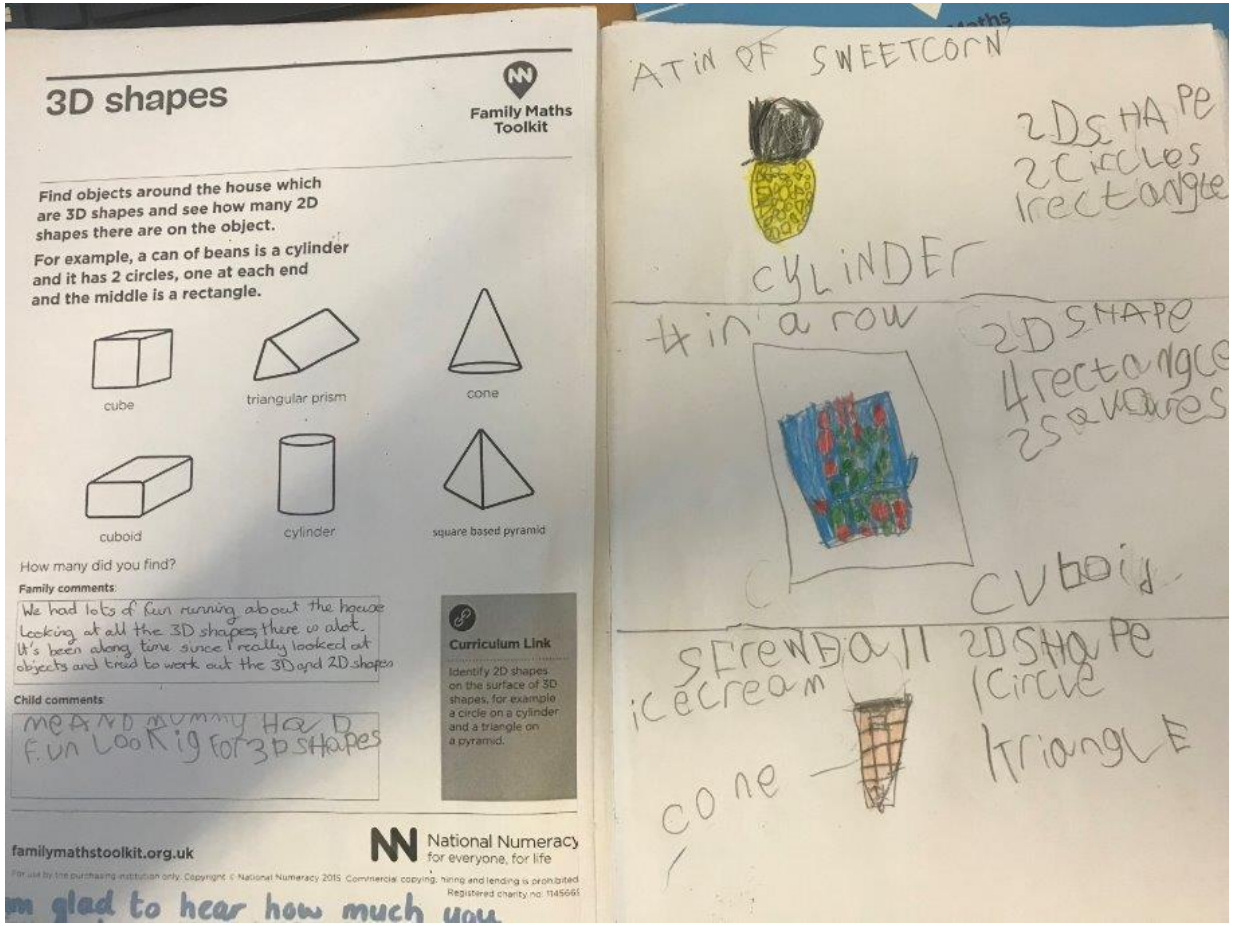
Boost your own confidence

National Numeracy Champions

Family Maths Resources

- Everyday maths activities
- Encourage positive conversations at home
- Complete as a family
- Related to seasonal events, holidays and everyday maths
- Open-ended investigations
- Scrapbooks

Family Maths Resources



3D shapes

Family Maths Toolkit

Find objects around the house which are 3D shapes and see how many 2D shapes there are on the object.

For example, a can of beans is a cylinder and it has 2 circles, one at each end and the middle is a rectangle.

cube

triangular prism

cone

cuboid

cylinder

square based pyramid

How many did you find?

Family comments:

We had lots of fun running about the house looking at all the 3D shapes there is alot. It's been along time since I really looked at objects and tried to work out the 3D and 2D shapes

Child comments:

me AND MUMMY HAD F.UN LOOKING FOR 3D SHAPES

Curriculum Link

Identify 2D shapes on the surface of 3D shapes, for example a circle on a cylinder and a triangle on a pyramid.

familymathstoolkit.org.uk

National Numeracy for everyone, for life

m glad to hear how much you

ATiN OF SWEETCORN

2DSHAPE 2CIRCLES 1RECTANGLE

CYLINDER

4 in a row

2D SHAPE 4 RECTANGLE 2 SQUARES

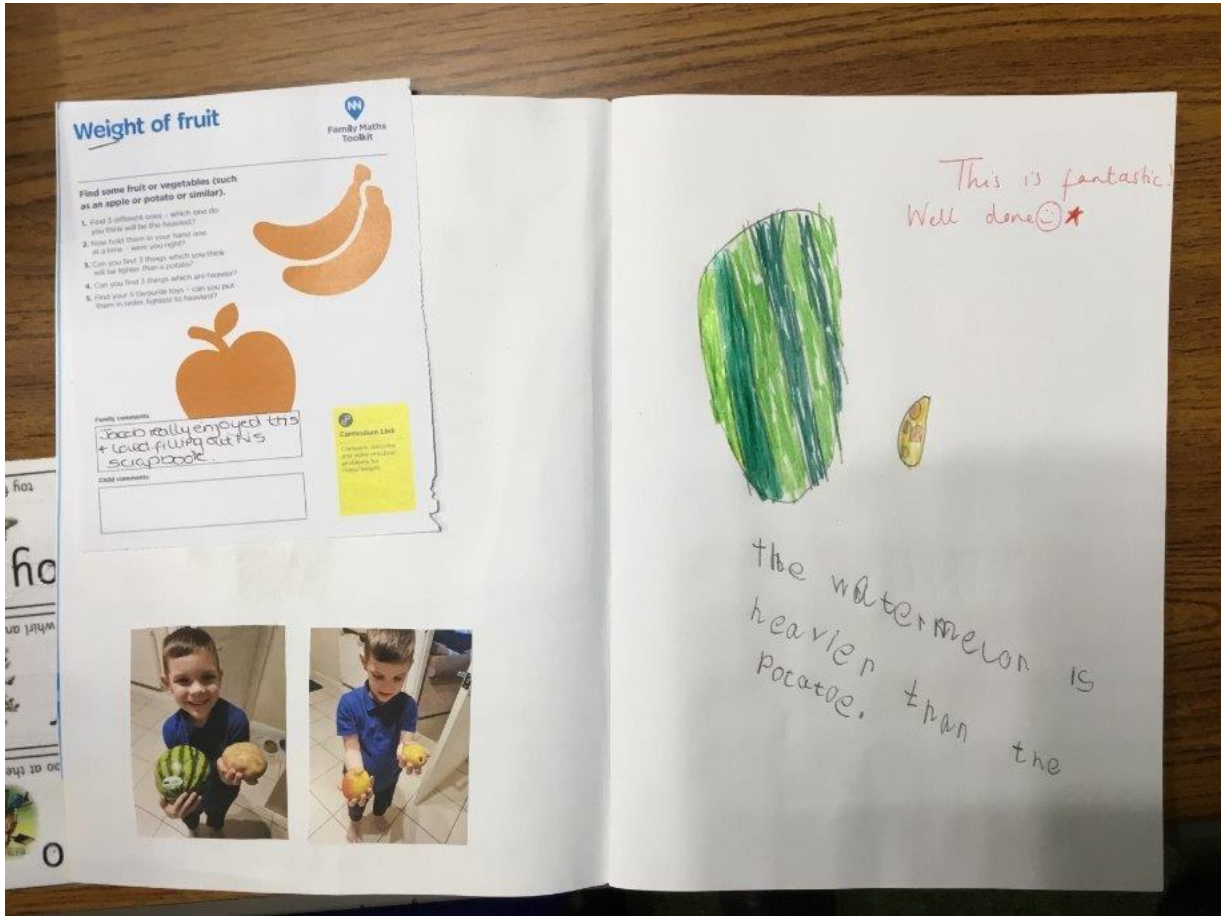
CUBOID

SCREAM ICECREAM

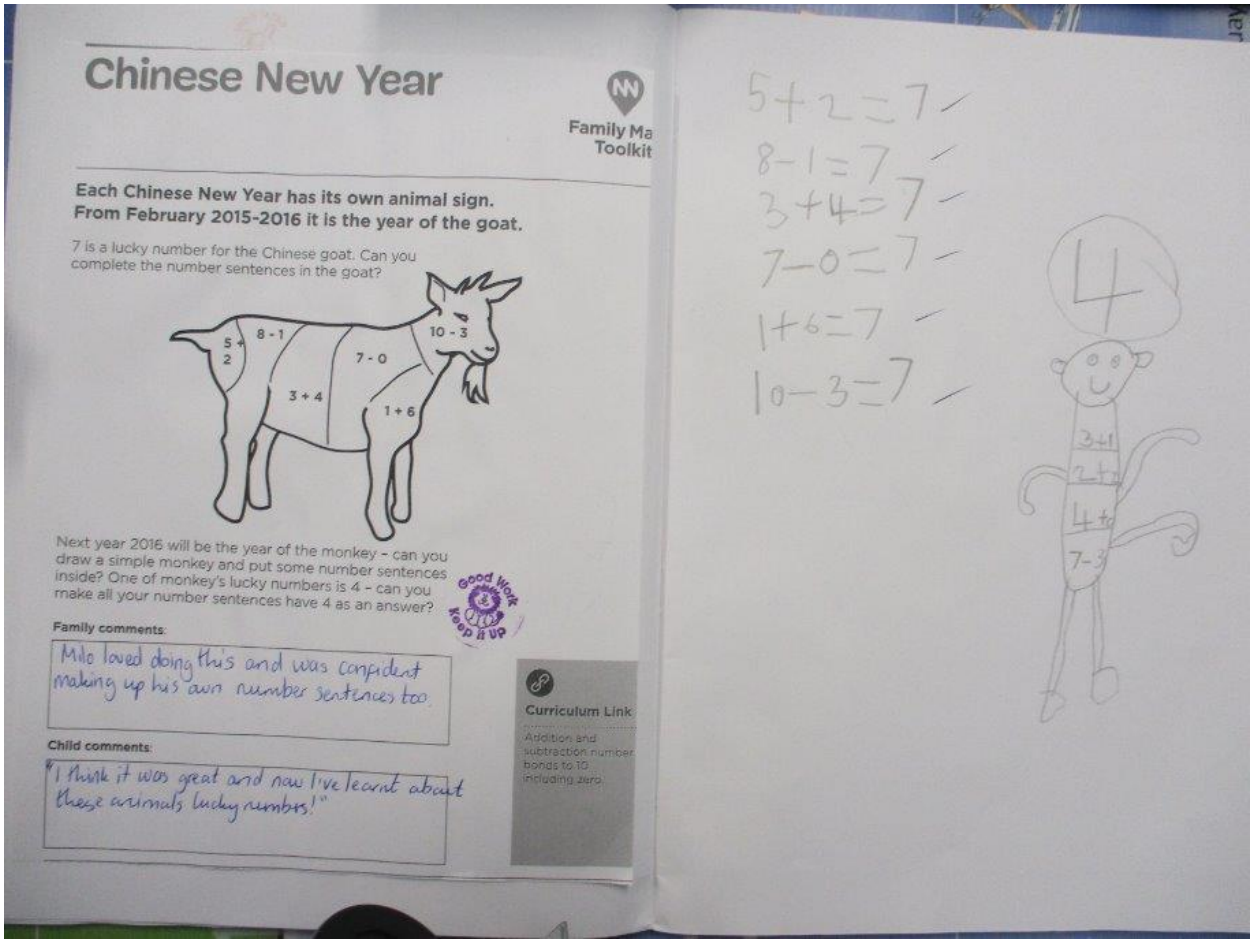
2D SHAPE CIRCLE TRIANGLE

CONE

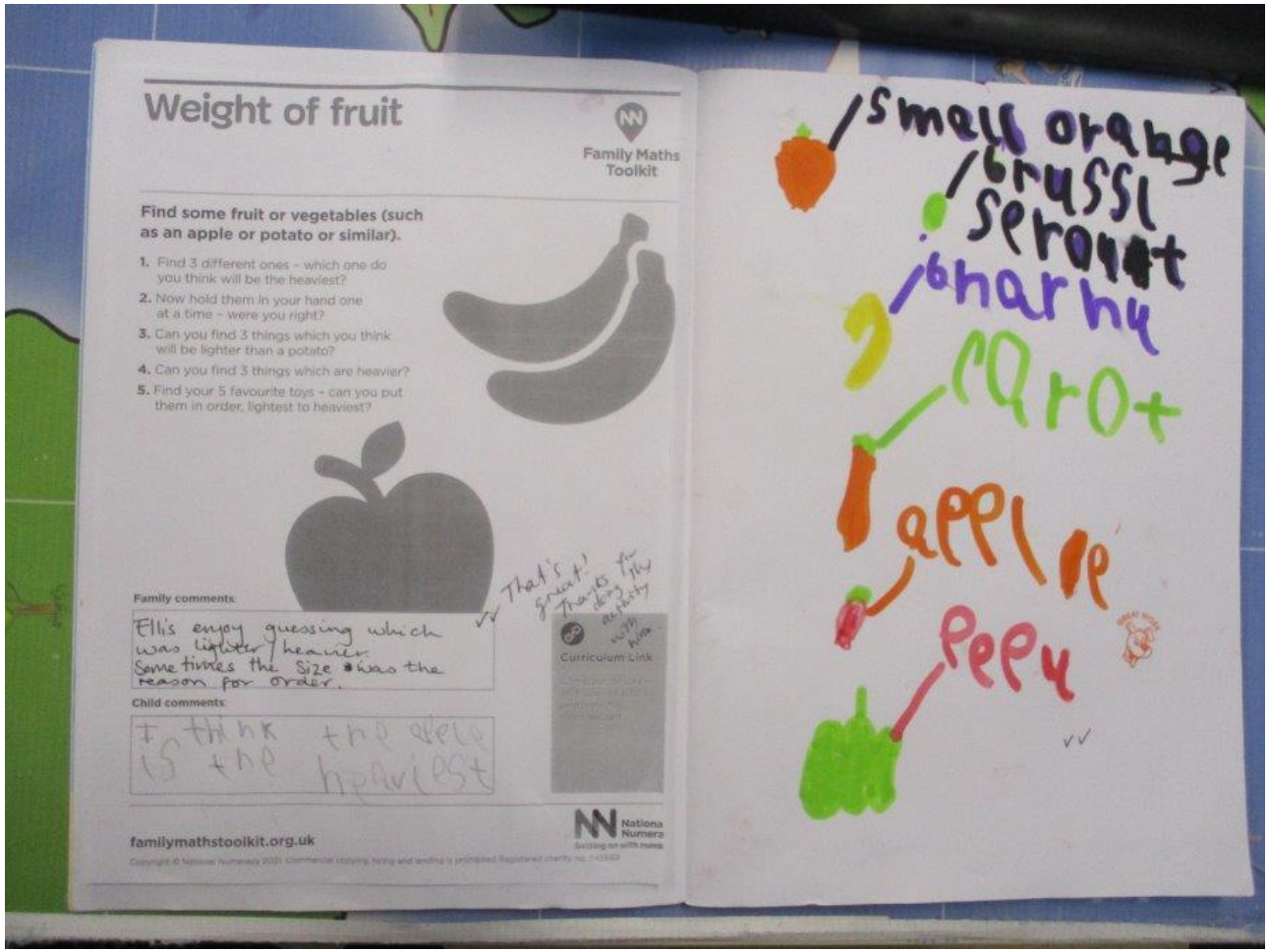
Family Maths Resources



Family Maths Resources

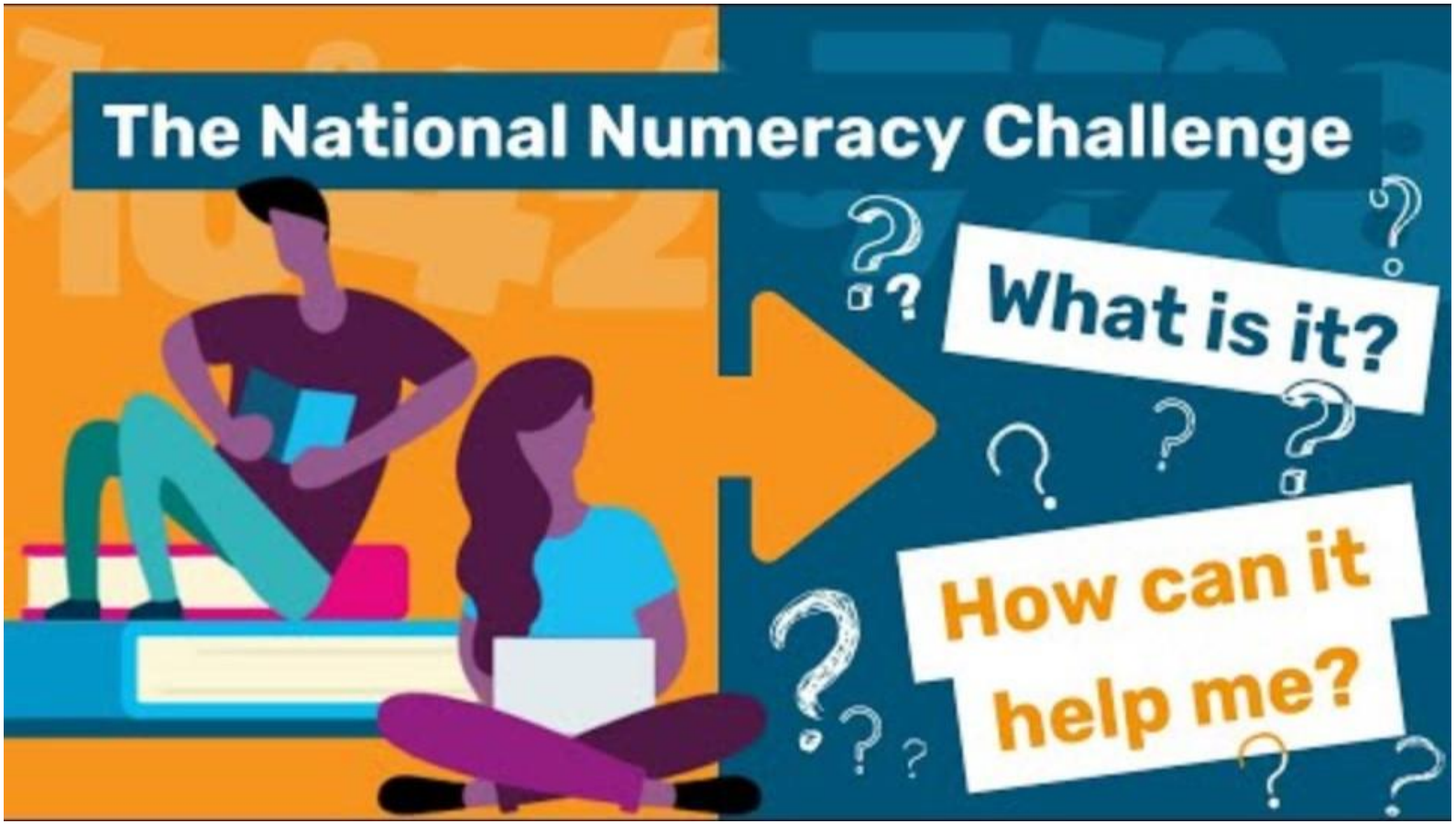


Family Maths Resources



National Numeracy Challenge

National Numeracy
Getting on with numbers



https://www.youtube.com/watch?v=XZuert73Le0&source_ve_path=MTc4NDI0