

I can represent multiplying powers of 10 using concrete resources

Steps to success

Find long sticks

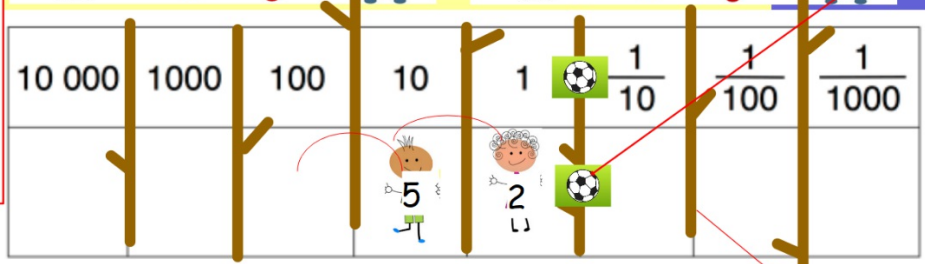
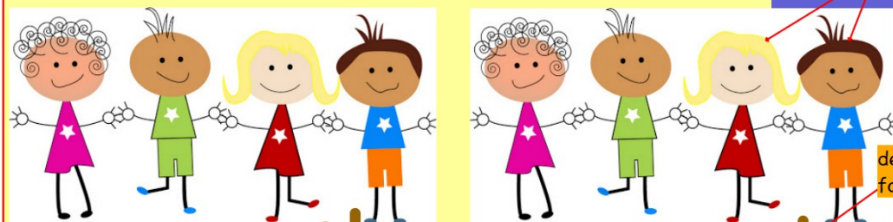
Allocate people to be the place values

Allocate people to be numbers

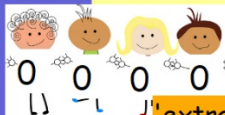
Allocate people to be zeros

Re-enact what happens when we multiply by 10, 100 and 1000. Move using jumps.

Swap roles



If we multiply this number by 10, 100 or 1000, where do they need to move to?



'extra 0' people

sticks

I can represent multiplying powers of 10 using concrete resources

Week 2 - outdoor maths

Multiplication bundles - seven times table

As we have been multiplying all week, we're going to practise our times tables using Multiplication bundles.



Steps to success

- ★ In groups, collect lots of twigs.
- ★ Bundle them up into groups of 7.
- ★ Then with chalk, mark out the seven times tables using the bundles of 7.
- ★ Now, move away from the chalk, or rub it out.
- ★ I'll call out a multiple of 7 and your team must assemble the correct number of bundles first for Team points.
- ★ Be careful because I will also call out some non-multiples of 7 to trick you!



Multiplication sticks



$$1 \times 7 = 7$$



$$2 \times 7 = 14$$



$$3 \times 7 = 21$$

Week 3 - outdoor maths

I can calculate perimeter and area of shapes in real life contexts
(treasure hunt - questions)

Treasure list

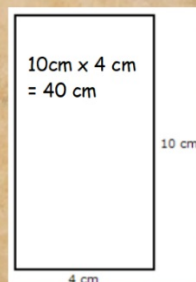
Find 2 square objects and calculate the perimeter

Seek out 2 rectangular objects and calculate its perimeter

Discover 1 irregular shaped object and calculate its perimeter.

Challenge:

Can you calculate the area of all your discoveries?



Steps to Success

★ Measure the length

★ Measure the width

★ Multiply Length x width

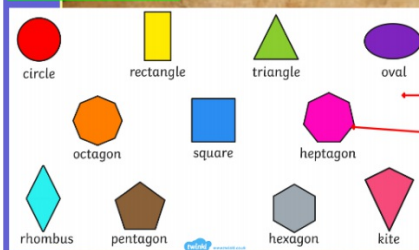
★ Record your results



Week 4 - outdoor maths - 2D shapes

I can calculate identify 2D shapes in the outdoor environment

Treasure list



Mild

Steps to Success

- ★ Pick a 2D shape
- ★ Count the sides
- ★ Look for it outdoors
- ★ Draw it and name it

Spicy - Find some irregular shapes

Hot - can you find any compound shapes or ones that aren't on the list?

1	2	3	4	5
6	7	8	9	10



Week 4 - outdoor maths - Division

Now we've had a week thinking about division, let's return to the first task we did, this time using concrete resources we've found outside.



Steps to Success

- ★ Pick a challenge
- ★ Collect the objects you need
- ★ Make the total number first.
- ★ Share them out.
- ★ Display them as a division calculation

Key

1 small twig = 1

1 larger twig wrapped in a little bit of string = 10

Mild

12 divided by 2

or

36 divided by 6

Spicy

121 divided by 11

or

144 divided by 12

Hot

Devise a way to display 100's.

Divide a 4 figure number by a 1 digit number

Explosive

Devise a way to display 100's.

Divide a 4 figure number by a 1 digit number and think of a number story to go with the calculation.

