Summer 2
Week 3

CMC
CATHEDRAL MATHS CHALLENGE

Put your entry in the CMC box by the end of school on:
Tuesday 3rd July

EYFS (Nursery and Reception)

Max is trying to learn his number bonds to 10. Can you help him work out what the missing numbers are?

$$4 + \rule{2cm}{0.4pt} = 10$$

$$\rule{2cm}{0.4pt} + 5 = 10$$

$$7 + \rule{2cm}{0.4pt} = 10$$

$$\rule{2cm}{0.4pt} + 1 = 10$$

$$6 + \rule{2cm}{0.4pt} = 10$$

KS1 (Year 1 & 2)

Look at the butterflies and the numbers they have. The flowers also have numbers.
Can you find 2 butterflies to go on each flower so that the numbers on each pair of butterflies adds to the same number as the one on the flower?

Butterflies: 10, 10, 5, 6, 10, 4, 10, 2, 7, 10, 10, 9, 10, 1, 10, 3

Flowers: 15, 16, 12, 18, 19, 14, 11, 17

Which pair of butterflies has no flower to go to?

Which flower cannot have a pair of butterflies on it?

LKS2 (Year 3 & 4)

Can you find the way through the maze starting at the number 22 and finishing with the answer 10?
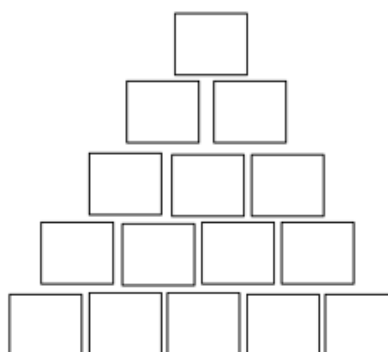
Start 22	+ 8	÷ 5
−7	÷ 3	x 2
x 6	−9	End 10

You must add, subtract, multiply or divide your number depending what square you land on.
You can only move to a square directly next to or under or over the square you are on. You cannot move diagonally.

UKS2 (Year 5 & 6)

Put the numbers 1 to 5 in the bottom row of this pyramid. They can be arranged in any order. The numbers in the other bricks are found by adding the two bricks immediately below together.

What arrangement of the numbers 1 to 5 in the bottom row gives 52 at the top of the pyramid?

Remember you can work the challenge out any way you would like to: draw pictures, use materials like buttons as counters, count in your head… Just make sure you show this on your solution paper!

Name: _____   Year: _____

Working out space:

Now explain how you solved the problem!

_____

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Remember you can work the challenge out any way you would like to: draw pictures, use materials like buttons as counters, count in your head… Just make sure you show this on your solution paper!