



Autumn 1 - Year 2

Thinking Beyond 100

This is your Bingo Card for my half termly 'Maths Missions'!

These challenges should encourage children to **think like mathematicians**: investigating, generalising, proving, spotting patterns, creating systems and explaining reasoning. This is an optional extra for children who want to do further Maths challenges after completing the home learning set by their class teacher. Tick them off as you go! 😊

1. 100 Ways to Make 100

Can you find as many ways as possible to make 100?

Use:

- addition
- subtraction
- groups
- Money

Can you reach 20 different methods?

2. Secret Number

Choose a number under 100.

Write five clues.

Can someone work out your number?

Challenge: Make the clues as tricky as possible!

3. Number Pattern Investigation

Start with any number.

Add 2 repeatedly. Add 5 repeatedly. Add 10 repeatedly.

What patterns do you notice?

Can you explain why?

4. Build a Number Museum

Choose your favourite number under 100.

Create a poster showing:

- representations
- calculations
- facts
- patterns

Why should your number be displayed in the museum?

5. Coin Challenge

How many different ways can you make £1?

Can you organise your findings systematically?

6. Design a 100 Square Puzzle

Create the hardest puzzle you can using a hundred square.

Test it on a family member.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



Year 2 Bonus Challenge

The 1,000 Club

Most of your learning is within 100.

Can you become a mathematician who understands 1,000?

Investigate:

- What does 1,000 look like?
- How many groups of 10?
- How many groups of 100?
- How many ways can you make 1,000?

Can you create:

- a poster
 - a model
 - a drawing
 - a calculation collection
- showing everything you know?

Challenge Question: Is 1,000 closer to 0 or 2,000? Explain mathematically.



Ultimate Whole-School "Impossible" Challenge

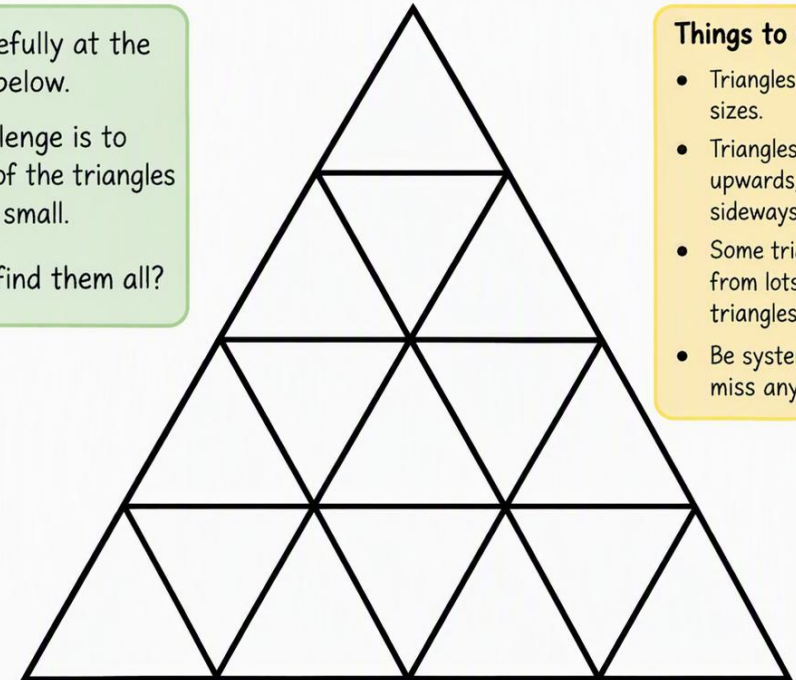
How Many Triangles?

It looks simple... but it's trickier than you think!

Look carefully at the triangle below.

Your challenge is to count all of the triangles – big and small.

Can you find them all?



Things to remember:

- Triangles can be different sizes.
- Triangles can point upwards, downwards or sideways.
- Some triangles are made from lots of smaller triangles.
- Be systematic – don't miss any!

How many triangles can you find?

Can you prove your answer?

Can you find a strategy to make sure you don't miss any?