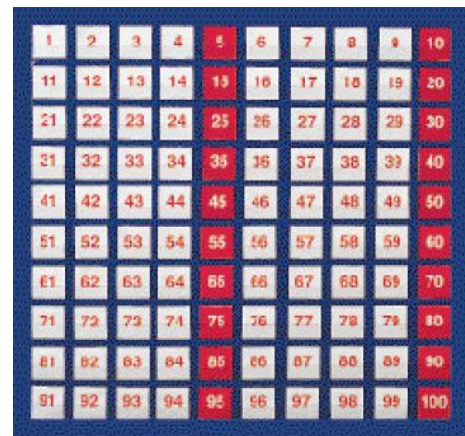


Activity Ideas: 100 Number Chart

The 100 number square is a handy versatile tool that can support a wide range of mathematical activities. A great visual resource to help pupils to discover number patterns, build confidence, independence, and improve mathematical skills.

The grid arranged in a 10x10 format contains numbers either from 1 to 100 or 0 to 99. The advantage of this is numbers with the same one's digit are presented in the same column and numbers with the same tens digit appear in the same row.



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

There are many ways to use the 100 Square. They are a great way to encourage number talk and reasoning. Use with the whole-class as an interactive teaching tool to demonstrate strategies and explore patterns. Or for group and independent tasks to help build confidence and understanding. Here are some favourite ways to use the 100 Square:

Counting and Number Recognition

One of the ways to use a 100 Square is to support with counting and number recognition. By visually displaying numbers in sequence children can easily identify and learn numbers. You can get pupils to point to specific numbers, count in sequences, or fill in missing numbers in a partially completed grid.

Count Forwards and Backwards

Start with any given number and practise counting forwards and backwards. This activity helps pupils understand number sequences and ordering.

Number Hunt

Say a number and see how quickly the children can find it on the number grid. You could also show the numbers in words so that pupils become familiar with the spelling of written numbers. Also explore and find all the numbers containing a certain digit and look for patterns and discuss the numbers found.

Counting Up and Cover-Up

Mix up the number cards and see how quickly the pupils can place them in order in the chart. Then cover up one or more squares and get them to guess which numbers are hidden.

Exploring Number Patterns

The 100 Square is a great way to highlight patterns such as odd and even numbers and multiples of a specific number. This visual representation helps pupils to predict and continue sequences.

Odds or Evens

Highlight all the odd or even numbers and establish the rule for recognising them. Investigate what number you get when you add two even numbers, or two odd numbers, or an even number added to an odd number.

Multiples

Counting in twos, fives and tens and recording the number sequences and noticing the patterns. Encourage daily counting in different multiples counting forwards and backwards. Recognise links between times tables, for instance, when counting the eight times tables noticing the connection with the two times tables and four times tables.

Calculation Practice

A 100 Square is a wonderful tool for practising addition and subtraction. For example, pupils can be asked to add or subtract by moving horizontally and vertically on the grid. This method provides a visual representation of how numbers relate to each other and helps pupils to be able to work out calculations confidently and independently.

Adding and Subtracting 10

Add or subtract 10 from any number. What is happening to the number each time? (The units will stay the same and the 10s will increase or decrease by 10.) At first children may need to count along each square 10 but will soon be able to go down the columns to add 10 and up the columns to subtract 10.

More or Less

Use the 100 Square to clearly demonstrate what happens to numbers when you add or subtract 1 or 10 from a given number. When the pupils are confident with this use this knowledge to quickly work out other calculations like adding or subtracting 9 or 11, by adding or subtracting 10 first and then adjusting.

Finding 100

Find pairs of numbers on the hundred square that total 100. How many different pairs can you find? Explore other number bonds and use the 100 chart to look for patterns.

Developing Problem-Solving Skills

The 100 Square can be used to develop problem-solving skills and pupils will enjoy investigating numbers. Pose challenges like finding the sum of a row or column. Encourage children to think critically and develop strategies to solve problems.

Jigsaw

Cut up a 100 Square in different ways. How quickly can the pupils put them back together? Present different sections of the 100 grid with some numbers filled in and others blank. Can the pupils fill in the missing numbers and explain how they know what numbers go where. Different parts of the 100 square can be chosen at random.

Squares

Highlight a 2 by 2 square. What do you notice? Add the numbers in opposite corners. Is the total always the same? Explore with different squares across the 100 chart.

Mystery Number/What's My Number?

Choose a number secretly and give clues for the children to guess. For example, I am thinking of a number. It is less than.... It is an odd number. How many clues do the pupils need before they guess the correct number? Alternatively, the children can ask questions that will lead them to guessing the mystery number.

Adding or Subtracting Game

Invent games where the children have to move forward on the chart by adding the total of the rolled dice or by starting at 100 and subtracting the total of the dice to move backwards. You could make it even more challenging by adding rules such as 'if you land on a multiple of 10 you can advance two spaces'.

The 100 square is a practical resource and can be used for maths activities and games both inside and outside. If you have any brilliant ideas for using the 100 Square and would like to share them with us, we'd love to hear from you.