Maths Overview

Collective Vision Trust uses the White Rose Maths Scheme as the basis of its mathematics curriculum.

White Rose is a carefully sequenced scheme that builds up childrens' mathematical knowledge through clear explicit teaching. It makes good use of developing mathematical knowledge through using concrete apparatus to pictorial representation and, then, to abstract thinking. It is designed to support the development of reasoning and problem solving alongside fluency to support challenge and ambition.

We have used this curriculum to draw out the crucial knowledge that is the foundation of mathematical learning that gives children the fundamental building blocks to develop their mathematical understanding and progress. We have ensured that we build in lots of opportunities for children to recap their knowledge, in order to ensure it is firmly embedded and, that, their learning is part of their long term memory.

Curriculum Intent

White Rose Maths scheme has a clear rationale for the sequence of the topics. Maths learning requires some things to be learned before others, for example place value needs to be understood before working with addition and subtraction. Similarly, addition needs to be learned before looking at multiplication. White Rose, quite rightly, puts the emphasis on number skills first in all year groups. Number is the crucial building block for all areas of mathematics and, so, must be prioritised.

For some topics (e.g. shape and statistics) the order is not crucial – they need to come after number, but don't depend on each other, and, so, they can be taught in any order. The sequencing of these is planned to give as wide a variety of topics for pupils as possible in each term and year.

Recap

Planned, quality recap is an essential feature of the curriculum. Teachers will incorporate recap into their daily and weekly plans. In addition, the following is worthy of note:

- On the spot accurate assessment is the key to good recap.
- Teachers will quickly move to longer recap of topic areas that pupils have not remembered.
- Differentiation of learning must be applied to recap work some pupils will need more recap than others, which needs to happen without holding back the learning of the rest of the class.
- The first week in a half term is always a recap week. No new concepts are taught in recap weeks.
- Topic specific recaps are also in the White Rose plans.
- Teachers will also plan additional ongoing recaps as part of their weekly plans

	Autumn	Spring	Summer
Year 1	 Recap - Reception Number: Place Value (within 10) Number: Addition and Subtraction (within 10) Geometry: Shape Recap - Autumn Term 	 Recap – Autumn Term Number: Place Value (within 20) Number: Addition and Subtraction (within 20) Number: Place Value (within 50) Measurement: Length and Height Measurement: Mass and Volume Recap - Spring Term 	 Recap – Autumn and Spring Term Number: Multiplication and Division Number: Fractions Geometry: Position and Direction Number: Place Value (within 100) Measurement: Money Measurement: Time Recap – Year 1
Year 2	 Recap – Year 1 Number: Place Value Number: Addition and Subtraction Geometry: Shape Recap – Autumn Term 	 Recap – Autumn Term Measurement: Money Number: Multiplication and Division Measurement: Length and height Measurement: Mass, capacity and temperature Recap – Spring Term 	 Recap – Autumn and Spring Term Number: Fractions Measurement: Time Statistics Geometry: Position and Direction Recap – Year 2
Year 3	 Recap – Year 2 Number: Place Value Number: Addition and Subtraction Number: Multiplication and Division Recap – Autumn Term 	 Recap – Autumn Term Number: Multiplication and Division Measurement: Length and Perimeter Number: Fractions Measurement: Mass and Capacity Recap – Spring Term 	 Recap – Autumn and Spring Term Number: Fractions Measurement: Money Measurement: Time Geometry: Properties of Shape Statistics Recap – Year 3
Year 4	 Recap – Year 3 Number: Place Value Number: Addition and Subtraction Measurement: Area Number: Multiplication and Division Recap – Autumn Term 	 Recap – Autumn Term Number: Multiplication and Division Measurement: Length and Perimeter Number: Fractions Number: Decimals Recap – Spring Term 	 Recap – Autumn and Spring Term Number: Decimals Measurement: Money Measurement: Time Geometry: Properties of Shape Statistics Geometry: Position and Direction Recap – Year 4
Year 5	 Recap – Year 4 Number: Place Value Number: Addition and Subtraction Number: Multiplication and Division Number: Fractions Recap – Autumn Term 	 Recap – Autumn Term Number: Multiplication and Division Number: Decimals and Percentages Measurement: Perimeter and Area Statistics Recap – Spring Term 	 Recap – Autumn and Spring Term Geometry: Properties of Shape Geometry: Position and Direction Number: Negative numbers Measurement: Converting units Measurement: Volume Recap – Year 5
Year 6	 Recap – Year 5 Number: Place Value Number: Addition, Subtraction, Multiplication and Division Number: Fractions A Number: Fractions B Measurement: Converting Units Recap – Autumn Term 	 Recap – Autumn Term Number: Ratio Number: Algebra Number: Decimals Number: Fractions, Decimals and Percentages Measurement: Perimeter, Area and Volume Statistics Recap – Spring Term 	 Recap – Autumn and Spring Term Geometry: Properties of Shape Geometry: Position and Direction Recap and application, including SATs preparation Recap and application, investigations and preparations for KS3

Number: Place value	This is the most important part of maths – all other topics will use the knowledge that you learn here.
Number: Addition and subtraction	These two topics build upon your knowledge of place value.

Number: Multiplication and division				
Number: Fractions				
Number – Decimals	These topics build upon your place value knowledge and will use and develop your addition, subtraction, multiplication and division skills			
Number – Percentages				
Number – Ratio				
Number – Algebra	This is the final skill in 'number' that you will learn about. You will need all the other crucial knowledge in order to learn this.			
Measurement	In this part of maths we apply our number knowledge to all the different things we 'measure'			
Geometry – Shape	These testics are all to do with shares, we will still pool your purchas be used to the use			
Geometry –Position and Direction	These topics are all to do with shapes – you will still heed your humber knowledge though.			
Statistics	This is the final part of maths. It looks at how we use maths to show information. Your number skills are still needed for this.			

Maths Year 6 Crucial Knowledge

Number: Place value	A number is an amount of something						
	 A number is an amount of something. It can be shown in words, digits, symbols or nictures to show that amount E.g. six, 6. VI 						
	We use numbers to count an amount						
	 we use numbers to count an amount. add numbers are amounts which cannot be split equally (in whole numbers) between two 						
	odd numbers are amounts which can be split equally (in whole numbers) between two						
	 even numbers are amounts which can be split equally between two A number must be a whole number to be odd or even. 						
	• The ones (unit) digit show whether a number is odd or even.						
	Digit: a numeral 0 to 9						
	There are ten digits that we use.						
	A digit is any one of these symbols: 0123456789						
	• The number 23 is written with two digits; 2 and 3.						
	Digits can be used to identify (show) something – like a telephone number or house number.						
	Place value: placement of digit						
	Each digit holds a value.						
	• The value of a digit depends on where it is within a number.						
	For example: 3 is						
	• In 37 the three has a value of 30						
	 In 307 the three has a value of 300 						
	An estimate means to find a value close/near to the actual by making an observation or using some information we already know						
	Deursdings						
	Kounding:						
	 when the digit on the place value in question is 5 or above - round up When the digit on the place value in question is 4 or below, round down 						
	 when the digit on the place value in question is 4 or below – round down 						
	Negative numbers:						
	A real number that is less than zero.						
	Often used to show a cold temperature						
	 Negative numbers are shown with a negative sign before the number. Eg5 						

Extended	Number line: a line with numbers placed in their correct position.							
	Useful for:							
	Adding							
Subtracting Finding and many or and loss								
	Finding one more or one less							
	Roman Numerals							
	1 = 1 50 = L 2 = 11 = 100 = C							
	3 = 111 500 = 0							
	4 = 1V 1000 = M							
	5 = V							
	6 =VI							
	7 = VII							
	8 = VIII							
	9 = IX							
	10 = X							
Number: Addition and	 Adding is bringing two or more things together – they will make a new amount 							
subtraction	 Addition can be used to count (adding one or more each time) 							
When adding the answer will always be greater than the parts being added								
	- subtraction: taking away							
	Subtraction is taking away from an amount. The ensure is shown are the selected ensure that the selected ensure the sele							
	 The answer is always smaller than the original amount. Subtraction can be used to count backwards. 							
	 Subtraction can be used to could backwards. Subtraction shows the difference between two values eg. 10 – 4 – 6 therefore the difference between 10 and 4 is 6 							
	• Subtraction shows the difference between two values eg. 10 – 4 = 6 therefore the difference between 10 and 4 is 6.							
	Total: the final amount or answer							
	Can relate to all calculations							
	Number bonds: two numbers that make a set amount							
	• (7+3=10, 9+1=10, 4+6=10)							
	Number bonds are used in addition and subtraction							
	= (often called equals)							
	This symbol means 'same as'.							
	It is usually used to show an answer.							
	> greater than							

	• The larger amount is placed by the larger opening and the smaller amount by the tip where the lines meet.							
	< less than							
	• The smaller amount is placed where the lines meet and the larger amount by the larger opening where the lines are furthest apart.							
	Column addition and subtraction:							
	Numbers are written in place value columns underneath one another							
	Start adding or subtracting the column on the right and work across to the left							
	When adding, this can be done in any order (ie smallest or largest first)							
	For subtraction the number you are taking away must go underneath the number you are starting							
Extended	Other words for addition include:							
	altogether							
	• sum							
	in total							
	Other words for subtraction include:							
	difference							
	take away							
	how many left							
	• minus							
	An inverse reverses the effect of another.							
	Addition is the inverse of subtraction							
	Subtraction is the inverse of addition							
	Inverse operations can be used to check answers							
	Eg. $20 - 4 = 16$, so $16 + 4 = 20$							
Number:	X multiplication: groups of							
Multiplication and	• Multiplication is sometimes called multiplying.							
wultiplication and	• It is 'groups of', the same as repeated addition.							
division	• 5 x 3 or 5 + 5 + 5							
	÷ division: splitting into parts							
	Splitting in to equal parts is also 'fair sharing'.							
	For example:							
	12 treats between 3 dogs is							

• 12 ÷ 3 = 4





- They have 4 treats each.
- Sometimes there may be an amount that is 'left over' this is called a 'remainder'

Multiplication tables: multiplication facts for a given number

- Multiplication tables start with 1x the number and finish with 12 x the number
- Multiplication tables can be used to answer both multiplication and division questions

Double: is adding the same amount again

• Double 2 is 2 + 2

Half: is sharing equally by 2

• Half of 6 is 6 shared by 2

Partition: means to split into smaller parts

Factors are numbers that divide into another number equally without anything left over.

• They usually come in pairs (1 and 12, 2 and 6, 3 and 4 are all factors of 12)

Multiples are the result after multiplying

• 12 is a multiple of 2 as 6 x 2 = 12

Prime Numbers:

- only have two factors itself and 1
- 1 is not a prime number

Square numbers are when a number is multiplied by itself to make a square

- One row and one column would make one square (or 1 x 1 = 1, so 1 is a square number)
- Two rows and two columns would make four squares (or 2 x 2 = 4, so 4 is a square number)
- Three rows and three columns would make 9 squares (or 3 x 3 = 9, so 9 is a square number)

Cube numbers are when a number is multiplied by itself three times to make a cube.

	 length x height x width eg 3 x 3 x 3 = 27, so 27 is a cube number 						
	Brackets show that things go together						
	Calculate: solving						
	We can use + - $x \div$ to calculate (solve) maths questions and problems.						
	Method is a way of doing something						
	Reasoning: to make sense						
	Reasoning is making sense of maths by using maths skills and knowledge.						
	• Think about the information given and the maths skills you already know to find an answer (solution).						
	Lf two pens cost 20n, one pen must cost 10n						
	 I know there are two pens and the total cost is 20p. 						
	\circ If I separate the pens into singles, I have two groups of pens with one pen in each group.						
	\circ If I separate the money in the same way – I separate the 20p in to two groups, I will have two 10ps, so each pen costs 10p.						
Extended	Array: things (objects or numbers) are arranged in rows and columns.						
	Rows are something going across						
	Columns are something going down						
	Multiplying by 10 moves all the digits in a number one column to the left, eg 53 x 10 = 530						
	Multiplying by 100 moves all the digits in a number two columns to the left, eg 53 x 100 = 5300						
	Dividing by 10 moves all the digits in a number one column to the right, eg 5300 ÷ 10 = 530						
	Dividing by 100 moves all the digits in a number two columns to the right, eg 5300 ÷ 100 = 53						
	Multiplying by 1 does not change the number, eg 53 x 1 = 53						
	Multiplying by 0 always gives an answer of 0, eg 53 x 0 = 0						
	Dividing by 1 does not change the number, eg $53 \div 1 = 53$						
	Dividing by the number itself always gives an answer of 1, eg 53 ÷ 53 = 1						
	 Indices (powers) tell us how many times to use the number in a multiplication. Eg. 8³ = 8 x 8 x 8 						

	Order of operations is the rule to say which calculations we should do first. The rule is BIDMAS:					
	Brackets					
	Indices					
	Division					
	Multiplication					
	Addition					
	Subtraction					
Number, Frestiens	Fraction: part of a whole (½, ¾)					
Number: Fractions	• The bottom number (denominator) is the total number of parts.					
	 The top number (numerator) is how many parts being used (looked at) 					
	Some fractions can be the same (equivalent) to other fractions. E.g. $2/4 = 1/2$					
	• Some fractions can be the same (equivalent) to other fractions. E.g. 2/4 – 72					
	Adding fractions:					
	Only add the top number (numerator)					
	 Only add the top number is the same, it stays the same. 					
	• If the bottom number is the same, it stays the same. 1 + 4 = 6					
	 If the bottom number isn't the same, find a new number that relates to both denominators. 					
	$\frac{1+1}{2} + \frac{4}{3} = \frac{7}{2}$					
	3 4 12 12 12					
	Subtracting fractions:					
	Only subtract the top number (numerator)					
	 If the bottom number is the same, it stays the same 					
	(1 - 2) = 2					
	 If the bottom number isn't the same find a new number that relates to both denominators 					
	1 - 1 = 4 - 3 = 1					
	Multiplying fractions:					
	Multiply the top number (numerator) and the bottom number (denominator)					
	$2 \times 1 = 2 \times 1 = 2$					
	3 4 3x 4 12					
	Dividing fractions:					
	• Keen the first fraction change the divide to a multiply flin the second fraction					
	Recep the insert action, change the divide to a multiply, np the second fraction					

	For example						
	$2/1 = 2 \times 4 = 8$						
	3 4 3 1 3						
	A balf is when a whole has been split into two equal parts. One of the parts is a balf						
Extended	A Hall is when a whole has been split into two equal parts. One of the parts is a half.						
	A quarter is when a whole has been split into four equal parts. One of the parts is a quarter.						
	A third is when a whole has been split into three equal parts. One of the parts is a third.						
	A unit fraction is one equal part of a whole.						
	The numerator in a unit fraction is always 1.						
	Fractions are equivalent (equal to) if they show the same part of the whole.						
	• Eg ½ is equivalent to ^{2/} 4						
	You get tenths when you split one whole one into 10 equal parts. Each part is one tenth or $1/10$.						
	You have a whole one when the numerator (top number) is the same as the denominator (bottom number).						
	An improper fraction is a fraction where the numerator (top number) is bigger than the denominator (bottom number). The improper fraction is worth more than one whole.						
	A mixed number is where you have a whole number and a fraction combined. Eg 1 ½ - one and a half.						
	You can find a fraction of an amount by dividing the amount by the denominator and multiplying this answer by the numerator.						
Number – Decimals	Decimals: smaller than one						
	A decimal is a value smaller than one						
	A decimal is shown to the right of a decimal point						
	A decimal point is a dot showing that a value smaller than one is to follow						
	For example: 0.42 shows four tenths and two hundredths						
	I enths are ten parts of one whole.						
	Hundreaths are one hundred parts of one whole.						
	A decinial point never moves.						

		5	ths	st		
	Ones	enth	dred	sanc		
	Ŭ	r -	5 H	Thou		
Entended	Fractions ca	an be writter	n as decimal	<u> </u>		
Extended						
	• ½	s 0.5 as a de	cimal			
	• /4 • 1/1	s 0.25 as a d a is 0 1 as a d	lecimal decimal			
	• 1/1	₀₀ is 0.01 as a	a decimal			
Number – Percentages	ber – Percentages Percentage: - part of a 100					
	• Pe	rcent means	out of 100			
	• % ·	- this symbo	I means pero	cent		
	• 11	% means 11	out of 100			
	Percentage	Percentages can be written as fractions or decimals.				
	• Eg	$41\% = \frac{41}{100}$	= 0.41			
	• 50	% = ½ = 0.5				
	• 25	% = ¼ = 0.25				
	• 20	$\% = \frac{1}{5} = 0.2$				
	• 40	% = ⁻ /5 - 0.4 % = ¹ / ₁₀ = 0 ′	1			
	• 1%	$b = \frac{1}{100} = 0.0$	1			
	To find 10%	of an amou	int you divid	e by 10.		
	Ratio: com	or an amoun	it you divide	by 100.		
Number – Ratio	Ratio. compare values					
	Ratio compares values (numbers) in a set order.					
	Example:					
	• Th	The ratio of dogs to cats is.				

	3:1 or The ratio of cats to dogs is.					
	1:3 • This symbol is used to separate the values in a ratio					
Extended	None					
Number – Algebra	Algebra: showing a number					
	 Using a letter or symbol to show a number y + 3 = 10 so here y = 7 To solve algebra inverse (opposite) instructions are used Inverse means the opposite Inverse of + is - Inverse of - is + Inverse of x is ÷ Inverse of ÷ is x 					
Extended	An expression are a group of numbers letters and operations. Examples:					
	• 4y					
	• 2x - 5					
	Substitution is putting values (numbers) where letters are.					
	A formula is a rule written with mathematical symbols.					
	• Eg. $P = 2I + 2w$					
	An equation says that two things are equal					
	Eg. 4					
Measurement	To find out the size or amount of something.					

- We can measure: distance, area, time, mass and volume.
- Distance is the space between points in a straight line
- We often use a ruler to measure a length or height

Length is long Width is wide

Height is tall

Weight, volume and capacity

- Weight is often used to describe the mass of an object how heavy something is
- Volume is the amount of space within something.
- Capacity is how much something holds
- Capacity is usually a measure of liquid or gas

Money

- Money tells us how much something costs
- We use pounds (£) and pence (p)
- 100p is the same amount of money as £1

Time

• Time is how long something takes.

Measurement – Mass, capacity and temperature

- Mass is how heavy an object is
- It is similar to weight
- Capacity is how much something holds
- Capacity is usually a measure of liquid or gas
- Temperature is how hot or cold something is

Perimeter is the length all the way around the edge of a shape

• You can find a perimeter by adding the lengths of all of the sides of the shape together

Area

- Area is measurement of a flat space.
- Area is the number of **squares** inside a shape

Converting units

- Converting units means changing from one unit to another
- You need to know the facts of how units are related to one another

Volume

• Volume is the amount of space within something

	Volume is the number of cubes inside something
Extended	We use a ruler to measure a length in centimetres (cm)
	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 The block is firm long
	We measure lengths, widths and heights in mm, cm, m and km.
	Coins we use are: 1p, 2p, 5p, 10p, 20p, 50p, £1, £2 Notes we use are £5, £10, £20 and £50
	There are 7 days of the week: Monday, Tuesday, Wednesday, Thursday, Friday, Saturday and Sunday.
	There are 12 months of the year: January, February, March, April, May, June, July, August, September, October, November, December.
	On a clock the hour hand is the shorter hand, and the minute hand is the longer hand. Some clocks also have a second hand , this is also a longer hand, but you can see it move more quickly than the others.
	Eg. Two o'clock half past two
	There are 24 hours in 1 day.
	There are 60 minutes in 1 hour.
	There are 60 seconds in 1 minute.
	 Years: All years (except for leap years) have 365 days. A leap year has 366 days Leap years happen every 4 years

Twelve hour clock is where time is told using the twelve ours from midnight to midday (**am** times – **a**fter **m**idnight) and the twelve hours from midday to midnight (**pm** times – **p**ast **m**idday).

Twenty four hour clock is where time is told using the full 24 hours in a day

We measure mass in grams (g) and kilograms (kg)

• There are **1000g in 1 kg**

We measure capacity in millilitres (ml) and litres (l)

• There are **1000ml in 1 l**

We measure temperature in degrees Centigrade (°C)

To calculate the area of rectangles, triangles or parallelograms you use the **formula** for the shape:

Area of rectangle = length (l) x width (w)



Area of triangle = half x base (b) x height (h)



Area of parallelogram = base (b) x height (h)



100cm is the same as **1m** There are **10mm** in **1 cm** There are **1000m** in **1 km**

	5 miles is roughly equivalent to 8 km.
Geometry - Shane	Shape is an outline or form of an object.
Geometry Shape	Dimension is a measurement
	• 2D (two dimensions) is a shape that has two measurements (e.g. width and height). It can't be picked up.
	• 3D (three dimensions) is a shape that has three measurements (width, height, depth). It can be picked up.
	Symmetry
	is when a shape is exactly like another shape when it is moved: rotated (turned) or flipped
	Some shapes have names
	Properties are things that all shapes with the same name have in common
	An angle is a space where two lines meet
	A compound shape is two or more shapes put together to make one shape.
	Regular means all the same
	A regular shape means all sides the same
	Integration means not the same
	An irregular shape means all sides are not the
	Names of 2D shapes:
Extended	
	Rectangle
	• Square
	Triangle
	2D shapes have sides and vertices
	• a side is each line on the shane
	a side is each file of the shape a side is each file of the shape
	• a vertex is a point where two intes meet
	A polygon is a closed shape with straight sides.
	An equilateral triangle is a triangle with all three sides the same length. All the angles in an equilateral triangle are 60°.



An **isosceles triangle** is a triangle with two equal sides. The angles opposite the equal sides are also equal.

A scalene triangle is a triangle with all sides of different lengths. The angles are different too.

A **quadrilateral** is a four sided shape. Some quadrilaterals have special names:

- square has all of the sides the same length and all of the angles 90° (right angles).
- **rectangle** has opposite sides the same length and all of the angles are 90° (right angles).
- **rhombus** has all sides the same length. The angles are **not** right angles. Opposite angles are equal.
- parallelogram has opposite sides the same length. The angles are not right angles. Opposite angles are equal.
- trapezium has one pair of sides parallel.

A circle is made by drawing a curve that is always the same distance from the centre. Some parts of a circle have special names:

- **radius** is the distance from the centre of a circle to the edge
- **diameter** is the distance across the circle, passing through the centre
- the diameter is always 2 x radius
- **circumference** is the distance all the way around the curved edge of the circle.

Names of **3D** shapes:



• Cylinder
• Cuboid
• Pyramid
• Cone
 Sphere 3D shapes have faces, edges and vertices. a face is each flat surface on the shape an edge is a line from one corner to another
a vertex is a point where two edges meet (a corner)
A net is a pattern that you can cut out and fold to make a model of a 3D shape.
A right angle is a quarter turn
An acute angle is smaller than a right angle
An obtuse angle is larger than a right angle
 We measure angles using degrees (°). A right angle is 90°. An acute angle is more than 0° but smaller than 90°. An obtuse angle is more than 90° but smaller than 180°.

A straight angle is 180°	
• A reflex angle is more than 180° but smaller than 360°.	
We use a protractor to measure angles	
Two right angles will make a straight line or 180°.	
Angles that make a straight line will always add up to 180° .	
Four right angles will make a full turn or 360°.	
Angles that make a full turn will always add up to 360° .	
Two lines that make a right angle are called nernendicular	
Horizontal lines go from side to side.	
Vertical lines go from up and down	
Lines are parallel if they are always the same distance apart.	
Geometry – Position ^{Position} is where something is.	
and Direction Direction tells you how to get to a position	
Reflection is when a shape flips to a mirror image	
It is identical in form but reversed like in a mirror	
Translation moves a shape. It can move up, down or to the side	
It never changes its form or shape in any way	
Grid co-ordinates are a way to find a position.	
They must always be given in the following order: They avis (rough) is always shown first, following hut they avis (column)	
• The x axis (row) is always shown first, followed by the y axis (country) • A full turn is moving something around all the way in a circle. It is in the same position as it started at the end of the full turn	
Extended	
A half turn is moving something around a half circle.	
A quarter turn is moving something a quarter of a circle. It is at right angle to where it started from at the end of a quarter turn.	

Statistics	Anti-clockwise is turning in the opposite direction as the hands of a clock. Statistics is looking at data Data is information. Statistics is collecting and showing information (data) so that we can talk about it. A table is list to record the information collected. A table has rows (go across) and columns (go down) A graph is a picture to show the information (data).
Extended	A tally chart is used to collect data. Fruit Tally Banana H Grape H Pear H Apple H A pictograph shows data by drawing pictures. A pictograph has a key that tells you how much each picture represents.
	AnimalNumber on farmPigs \overleftrightarrow \overleftrightarrow \overleftrightarrow \checkmark Horses \checkmark

Block diagrams use blocks to show data

Chickens

Cows

 $\bigstar \bigstar \bigstar \checkmark$

 $\bigstar \bigstar \bigstar \bigstar \bigstar \bigstar \bigstar \bigstar \bigstar$



A bar chart shows data in bars. It uses a scale, which is the equal amounts that the data goes up in.



The scale on the left shows the data going up in 10s.

A **line graph** is a graph with points connected by lines to show how something changes in value.

