Pric	Prior Knowledge				
1	Radius	Radius	The distance from the centre of a circle to the circumference		
2	Angles in a full turn	• 360°	360° = full turn = one revolution		
3	Frequency		The number of times something occurs.		
4	Mode	3 , 4 , 5 , 5 , 5 , 6 , 6 , 7 , 8 , 8 , 9 mode = 5	The value that occurs most often, or has the highest frequency.		
5	Median	1, 3, 3, 6 , 7, 8, 9 Median = <u>6</u> 1, 2, 3, 4 , 5 , 6, 8, 9 Median = (4 + 5) ÷ 2 = <u>4.5</u>	The middle value when the data is in order. If there are an even number of values the median lies halfway between the two middle values.		
6	Mean	sum of amounts number of amounts	The total of the values divided by the number of values.		
7	Range	range = biggest value - smallest value	The spread of the data. Calculate by subtracting the smallest value from the biggest.		
8	Modal class		The class with the highest frequency in a grouped frequency table.		
9	Comparing data sets	"Paul's jumps are less consistent than Daniel's because his jumps have a greater range. Daniel jumps further on average than Paul because his jumps have a greater mean."	Find an average and the range, then write 2 sentences comparing the data.		
Core Knowledge					
10	Pie chart	Breakdown of Colin's average day Total: 24 hours Sleep Driving Teaching Writing Admin Other	A pie chart is a circle divided into slices called sectors. Each sector represents a set of data.		
11	Frequency table	Age (years) Frequency 12 1 13 17 14 12	A table used to organise data as an ordered list with their frequencies.		
12	Two-way table	Dominant HandLeftRightTotals2 years9112018 years15520Totals202040	A two-way table divides data into groups in rows and columns.		
13	Grouped data	The class $4 \le l < 6$ includes all values of length l from $l = 4$ cm up to, but not including, 6 cm.	Data can be grouped into classes.		
14	Class width	Height Frequency Class width $140 \le h < 150$ 8 10 $150 \le h < 155$ 9 5 $155 \le h < 160$ 4 5	The width of a class in a frequency table.		

15	Median (position)	In a set of <i>n</i> data values, the median is the $\frac{n+1}{2}$ th one.	When data is grouped you can identify the position of the median value by adding 1 to the number of values (n) and dividing by 2.
16	Stem and leaf diagram	1 9 2 2 2 4 8 8 8 8 3 5 6 9	This shows numerical data split into a 'stem' and 'leaves'. The key shows how to read the data.
		Key: 1 9 means 19 cm	
17	Outlier		An extreme value, or anomaly, that doesn't fit the pattern of the other data values.
18	Scatter graph	Sales 100 100 100 100 100 100 100 10	This shows two sets of data on the same graph. The shape of the graph shows if there is a correlation between the data sets.
19	Line of best fit		A line of best fit represents the trend of the correlation. When drawing, aim for a balance of points above and below the line.
20	Axis break	240 000 230 000 0 0	An axis break can improve readability for large data values, but it can be misleading as it can exaggerate the differences in data.
Dep	oth		
21	Back to back stem and leaf diagram	Before video After video 8 5 3 1 2 9 6 4 1 0 2 1 7 9 2 0 3 0 6 7 7 8 8 4 3 4 2 2 5 9 5 0 0 5 0 0	This shows 2 sets of data and is useful for comparing the distributions. There is a key to read each side. The left hand side is ordered right to left from the stem.
		2 3 means 32 3 6 means 36	
22	Population pyramid	Men Women 90s 90s 80s 90s 70s 90s 60s 90s 60s 90s 40s 90s 20s 90s 10s 90s	This is a back to back bar chart and is useful for comparing distributions.