

# algebra

College courses

Intermediate  
and Advanced  
apprenticeships



Functional  
Skills

Core  
Maths

Linear programming Sequences and growth

Balanced Method

$$\begin{array}{r} 3x + 7 = 22 \\ -7 \quad -7 \\ \hline 3x = 15 \\ \div 3 \quad \div 3 \\ \hline x = 5 \end{array}$$

Square,  
cube,  
triangular  
numbers



YEAR  
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Solving simple equations Expand single brackets Sequences

**Expanding**

$$2(g + 4) = 2g + 8$$

Formulae  
Substitution

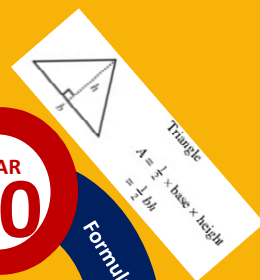
Simplifying Expressions  
Collecting like terms Terms

$$\begin{array}{c} 4x^2 + 3xy + 14x + 7xy + x^2 \\ 5x^2 + 10xy - 14x \end{array}$$

expression  
 $2x + 5$   
equation  
 $2x + 5 = 15$

GCSE  
foundation

YEAR  
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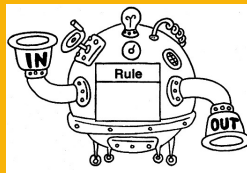


Formulae  
Construct and solve equations

$$\begin{array}{l} 3n = 12 \\ \div 3 \quad \div 3 \\ \hline n = 4 \end{array}$$

Describe and continue sequences Function machines Algebraic notation Solve equations Simplify expressions

Access to  
foundation



Collecting like terms Substitution

$$\begin{array}{l} x + \frac{x}{2} \\ x = 5 \rightarrow \frac{5}{2} + \frac{5}{2} \end{array}$$

YEAR  
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Solving equations Collecting like terms Generate sequences

$$\begin{array}{r} y + 14 = 20 \\ -14 \quad -14 \\ \hline y = 6 \end{array}$$

$$2a + 3a + a = 6a$$

Positive and negative integers



Odds and evens

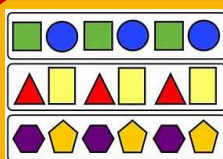
2 3 5 7 11 13 17  
19 23 29 31 37 41

Entry Level  
Maths

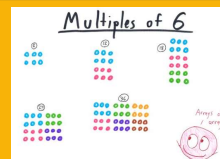
Odds and evens Multiples

Counting Sequences

YEAR  
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Repeating patterns

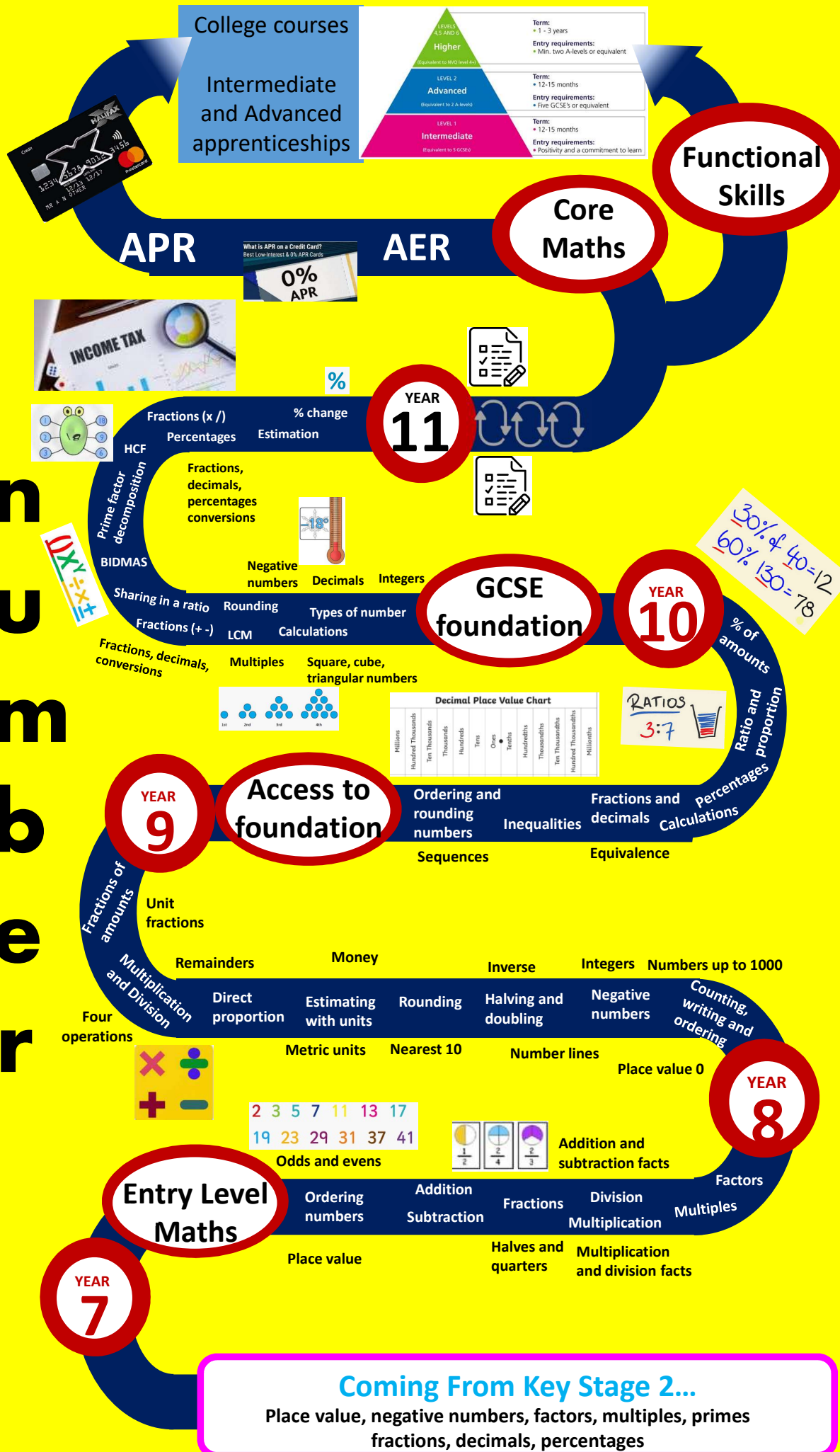


YEAR  
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Coming From Key Stage 2...  
Representation of unknown numbers with letters

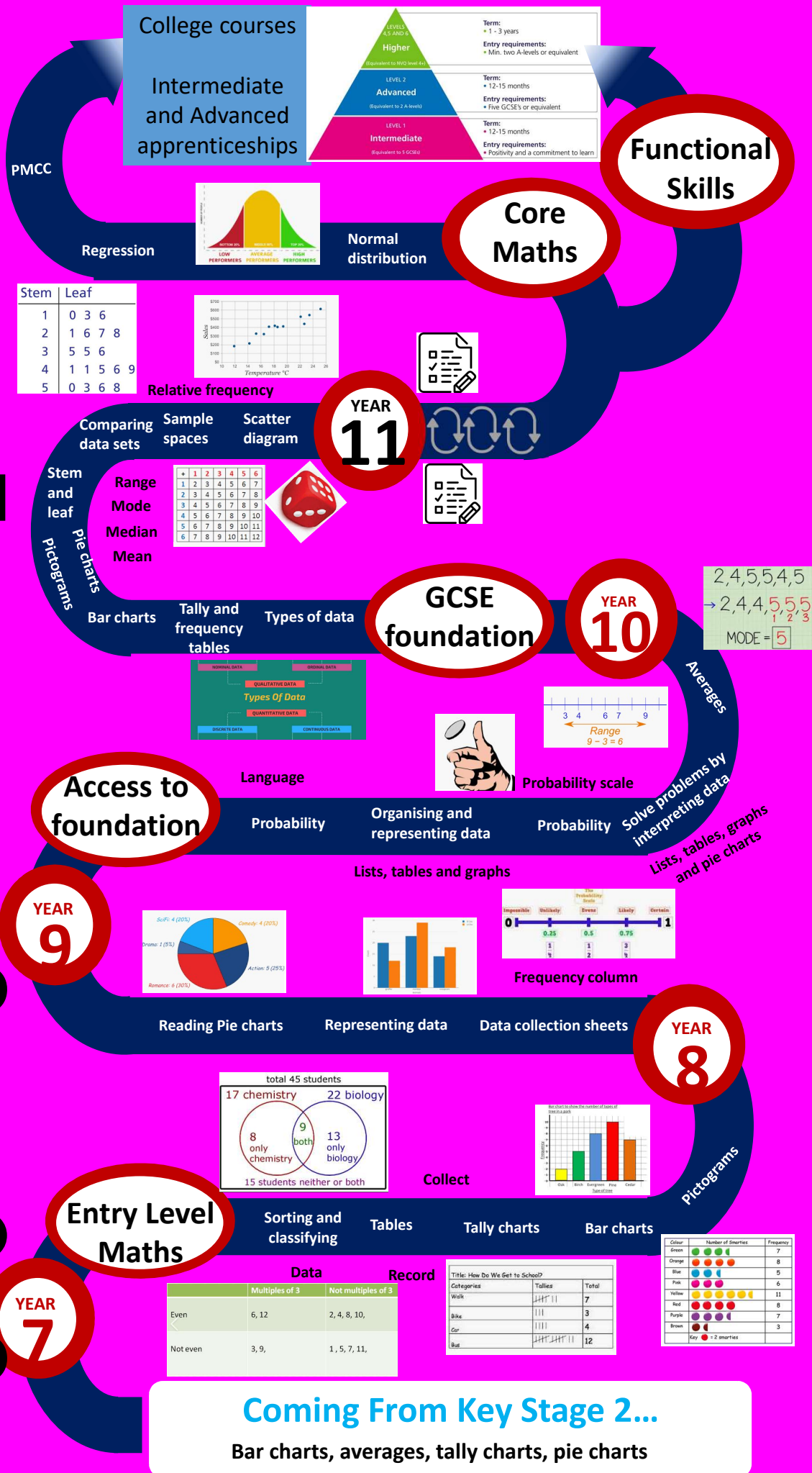
Algebra

# Number



**Coming From Key Stage 2...**

Place value, negative numbers, factors, multiples, primes, fractions, decimals, percentages

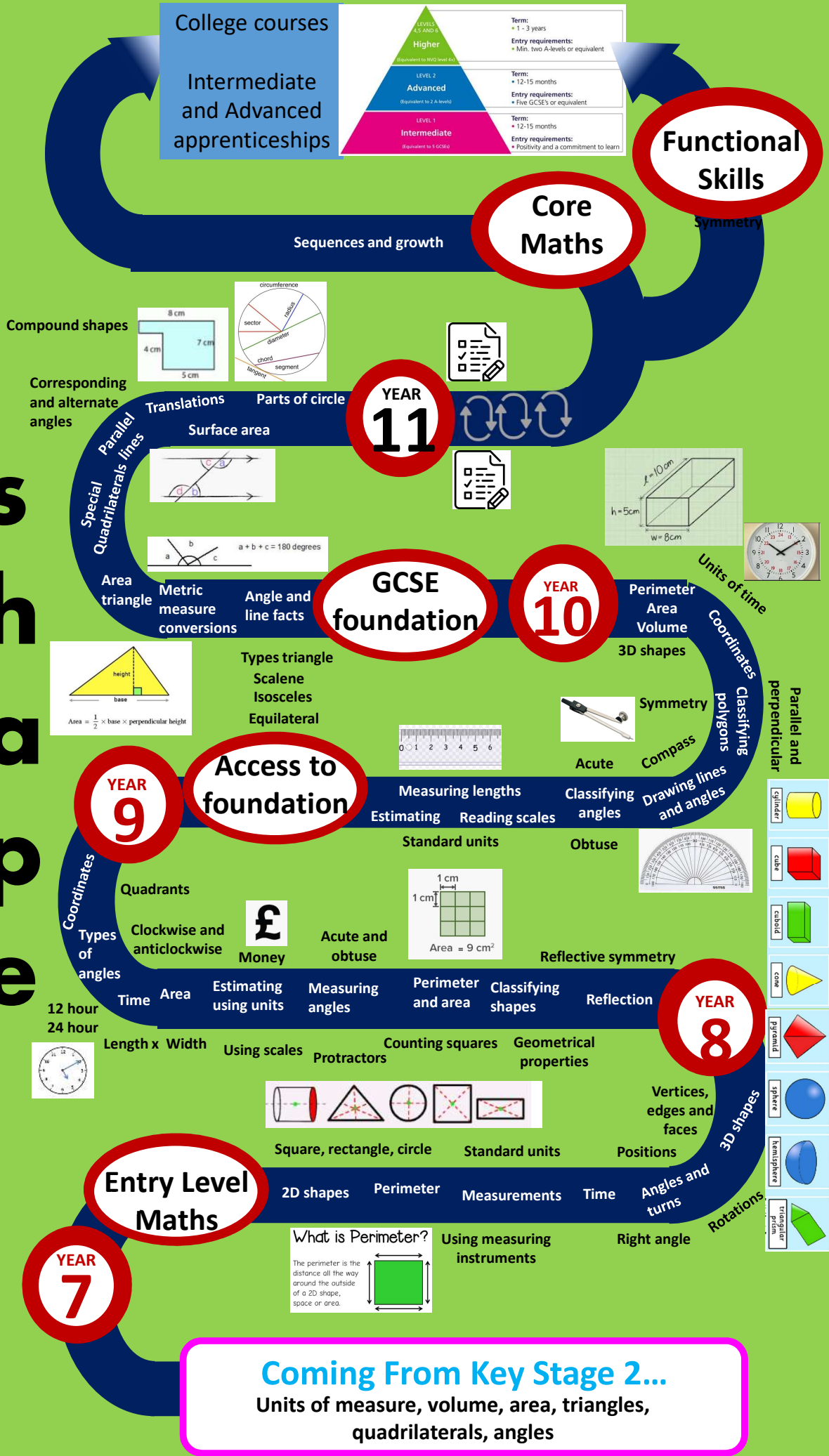


## Coming From Key Stage 2...

## Bar charts, averages, tally charts, pie charts

# Probability and Statistics

# Shape



# Shape