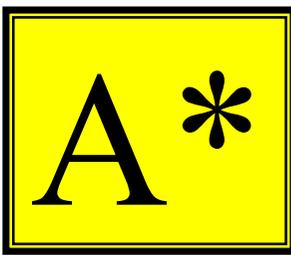


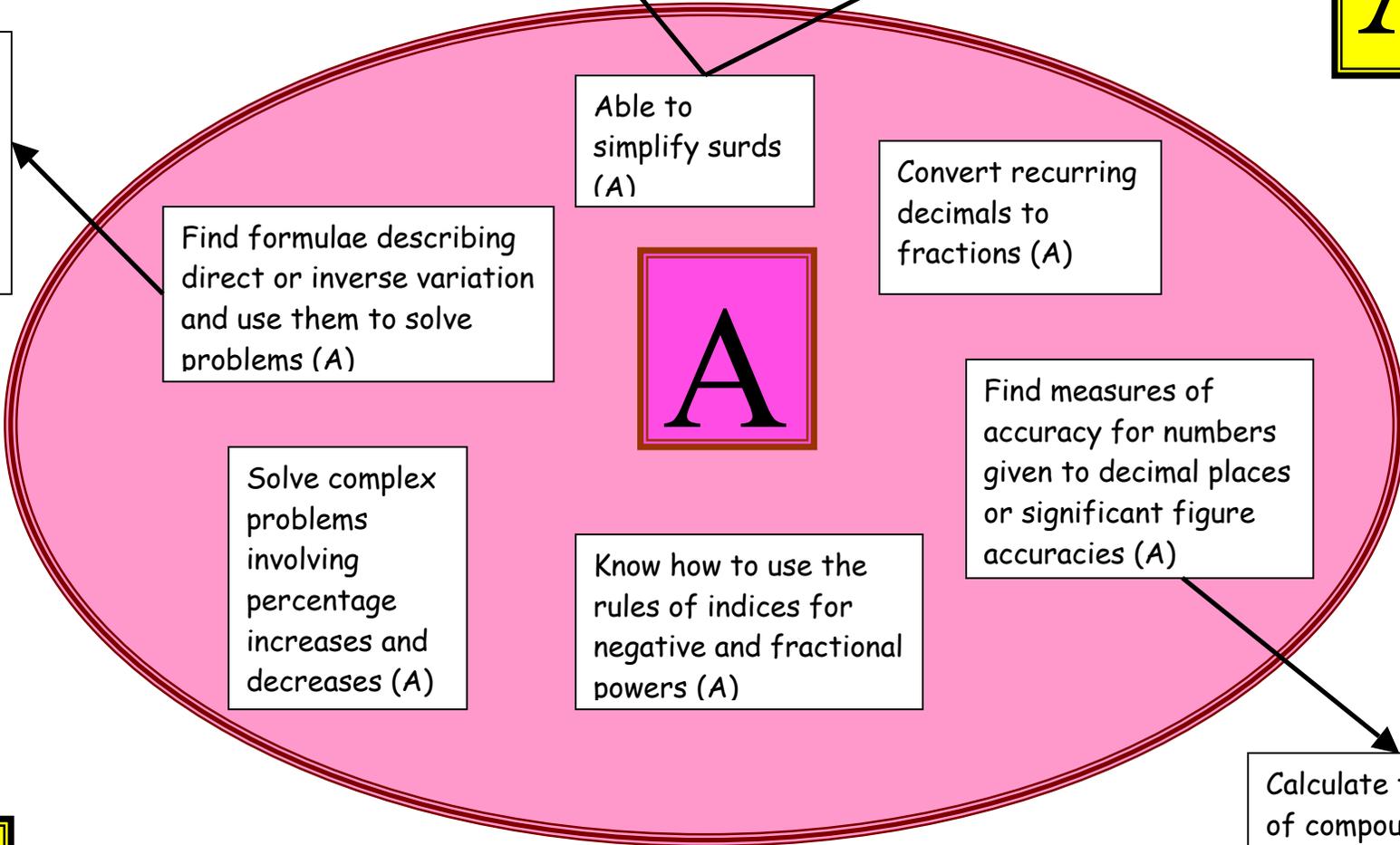
Number:
Moving from A to A*



Manipulate expressions containing surds and rationalise denominators (A*)

Solve problems using surds (A*)

Solve direct and inverse variation problems involving three variables (A*)



Find formulae describing direct or inverse variation and use them to solve problems (A)

Able to simplify surds (A)

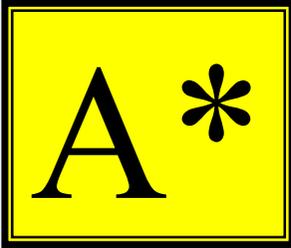
Convert recurring decimals to fractions (A)

Solve complex problems involving percentage increases and decreases (A)

Know how to use the rules of indices for negative and fractional powers (A)

Find measures of accuracy for numbers given to decimal places or significant figure accuracies (A)

Calculate the limits of compound measures (A*)



**Number:
Moving from B to A**

Find formulae describing direct or inverse variation and use them to solve problems (A)

Solve problems involving density (B)

Work out the square roots of some decimal numbers (B)

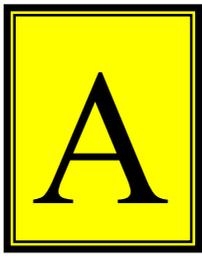
Able to simplify surds (A)

Convert recurring decimals to fractions (A)

Estimate answers involving the square roots of decimals (B)



Find limits of accuracy for numbers given to whole number accuracy (B)



Able to do reverse percentage problems (B)

Write and calculate with numbers in Standard index form (B)

Solve complex problems involving percentage increases and decreases (A)

Know how to use the rules of indices for negative and fractional powers (A)

Find measures of accuracy for numbers given to decimal places or significant figure accuracies (A)

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ASK - Kent

**Number:
Moving from C to B**

Solve problems involving density (B)

Calculate with mixed numbers (C)

Work out compound interest problems (C)

Able to do reverse percentage problems (B)

Write a number as a product of its prime factors (C)

Solve problems using ratio in appropriate situations (C)

Work out the LCM and HCF of pairs of numbers (C)

Multiply & divide numbers written in index form (C)

Write and calculate with numbers in Standard index form (B)

Work out the square roots of some decimal numbers (B)

Estimate the values of calculations involving positive numbers < 1 (C)

Use a calculator efficiently and give answers to an appropriate degree of accuracy (C)

Estimate answers involving the square roots of decimals (B)

Find limits of accuracy for numbers given to whole number accuracy (B)

B

C

B

Based on info in 'GCSE Maths 2 tier Higher' - Collins

Number: Moving from D to C

Write a number as a product of its prime factors (C)

Work out the LCM and HCF of pairs of numbers (C) L L H H

Estimate the values of calculations involving positive numbers < 1 (C)

Use a calculator efficiently and give answers to an appropriate degree of accuracy (C)

Able to calculate with mixed numbers (C) L H

Recognise and work out factors, multiples & primes (D) L H

Estimate the values of calculations involving positive numbers > 1 (D) L L

Round numbers to a given number of significant figures (D) L H

D

Add, subtract, multiply & divide fractions (D)

Write and calculate with numbers written in index form (D) L L H H

C

Multiply & divide with negative numbers (D) L H

Calculate averages speeds from data (D)

Calculate distance from speed and time (D) L

C

Calculate percentage increases and decreases (D)

Calculate time from distance and speed (D)

Compare prices of products to find the 'best buy' (D)

Multiply & divide numbers written in index form (C) L H

Work out compound interest problems (C)

Solve problems using ratio in appropriate situations (C)

**Number:
Moving from F to E**

E

F

Recognise two digit prime numbers (E)

Evaluate calculations involving decimal numbers (E)

Answer problems involving multiplication or division by a single-digit number (F)

Calculate simple powers of whole numbers (E)

Add and subtract mixed numbers (E)

Add more difficult fractions (F)

Write down the square of any number up to $15 \times 15 = 225$ (F)

Multiply a fraction by a fraction (E)

Change mixed numbers into top heavy fractions (F)

Compare two fractions of quantities (F)

Multiply a 3 digit number by a 2 digit number without using a calculator (F)

Write down the cubes of 1, 2, 3, 4, 5 and 10 (F)

E

Solve fraction problems expressed in words (F)

Subtract positive & negative numbers from positive & negative numbers (F)

Solve real problems involving multiplication and division (F)

Know how to find the square root of any number using a calculator (F)

Add positive & negative numbers to positive & negative numbers (F)

Divide a 3 or 4 digit number by a 2 digit number (F)

Round decimal numbers to a specific number of places (F)

Change fractions to decimals (E)

Solve problems involving simple negative numbers (E)

Find simple percentages of a quantity (F)

Change decimals to fractions (E)

Find any percentages of a quantity (E)

Simplify a ratio (E)

Based on info in 'GCSE Maths 2 tier Foundation' - Collins

Number: Moving from G to F

