Year 10

REARRANGE AND SOLVE EQUATIONS

Key Concepts

Solving equations: Working with inverse operations to find the value of a variable.

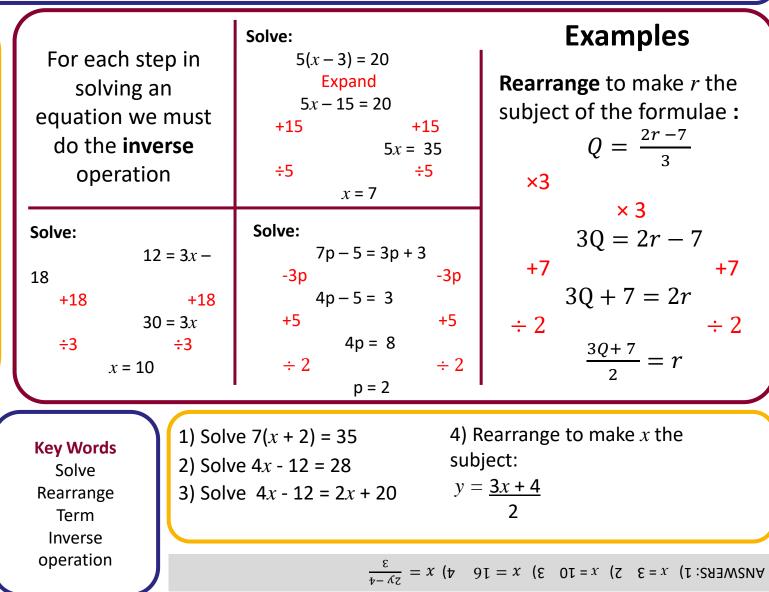
Rearranging an equation: Working with inverse operations to isolate a highlighted variable.

In solving and rearranging we **undo the operations** starting from the last one.

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Year 10 **SOLVING QUADRATICS**

Key Concepts

We can solve quad in 4 different ways:

Graphically

223-228,

Completing the Square

Quadratic formula

We can solve quadratic equations
in 4 different ways:

$$ax^{2} + bx + c = 0$$
Factorising – put into brackets first

$$(x + 2)(x + 5) = 0$$

$$(x + 3)^{2} + 5 - 3^{2} = 0$$

$$(x + 3)^{2} + 5 - 3^{2} = 0$$

$$(x + 3)^{2} - 4 = 0$$

$$(x +$$

Examples

11.9 - x, 11.0 = x (E + -3) - x, 2 - x, 2 - x, 12 -