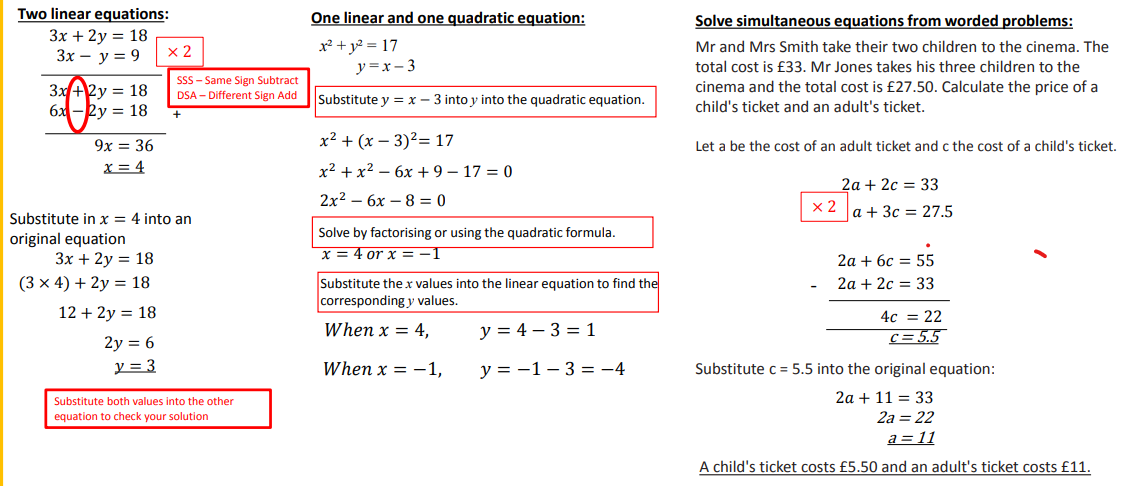
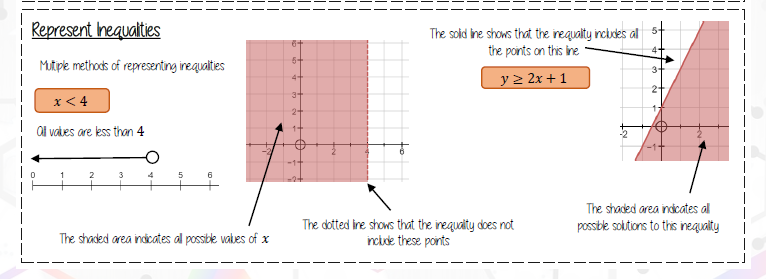
Hillcrest School and Sixth Form

**KEY INFORMATION**

**Simultaneous Equations:**





Department of Mathematics

KNOWLEDGE ORGANISER

YEAR 10 **HIGHER** TERM 3B –Equations and Inequalities

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| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **OUTCOMES**   |  | | --- | | -Form and Solve linear equations | | -Solve linear and quadratic simultaneous equations | | -Solve problems using simultaneous equations. | | -Solve a simple linear inequality and represent it on a number line. | | -Show a graphical inequality | | -Find regions that satisfy more than one graphical inequality. | | -Show and solve quadratic inequalities graphically | | -Recognise rational numbers, reciprocals, terminating decimals  and recurring decimals. | | -Convert terminal decimals to fractions. | | -Convert fractions to recurring decimals. | | -Find reciprocals of numbers or fractions. | | |  | |

**KEY WORDS**

* **Rational number – a number that can be written as an integer or fraction Examples: 5, ¾ , 3.2**
* **Terminating decimal – a decimal that has an end, 0.75 for example.**
* **Recurring decimal – a decimal that repeats indefinitely**
* **Simultaneous equations -** equations involving two or more unknowns that are to have the same values in each equation.
* **Reciprocal -**  one of a pair of numbers that, when multiplied together, equal 1. The reciprocal of 3 is ⅓
* Inequality - An **inequality** compares two values, showing if one is less than, greater than, or not equal to another value