1.2 Algebra – what you need to know

Achievement

* Simplifying adding and subtracting like terms eg
* Simplifying multipliying and dividing terms eg. and
* Solving exponent equations – by guess and check eg ,
* Solving linear equations eg
* Solving linear inequations – same as above but with (just change sign when by negative number
* Expanding – getting rid of brackets – all types
* Rearranging formula/Substitution - basic (change side, change sign) eg.
* Factorising – simple and quadratics (incl difference of two squares and perfect squares) eg. (no number in front of but can have common factor)
* Quadratic Equations – same level as factorising, solving equal to 0
* Rational Expressions – like fractions, simple (already factorised) eg
* Simultaneous Equations – simple elimination eg.

Merit

* Simplifying adding and subtracting (using negative and fraction exponents eg.
* Simplfying multiplying and dividing terms (two or more steps) eg.

and

* Solving exponent equations eg. (two step process ie ÷2 then )
* Simplifying algebraic fractions eg. and
* Solving linear equations (usually fractions)
* Solving linear inequations eg.
* Expanding (word questions) using diagrams
* Rearranging formulae eg (t), (h)
* Factorising quadratics (number in front of ) eg.
* Solving quadratic equations (brackets = 0) eg.
* Rational expressions (factorise top and bottom and cancel out eg.
* Simultaneous equations eg.
* Algebra word problems

Excellence

* Using letters instead of exponents eg.
* Generalising rules and proofs eg If show
* Harder exponential equations eg
* Harder algebraic fractions, rearranging, word equations
* Word problems