

**Maths summary for year 9 Advanced**

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| NUMBER SKILLS |
| **Topic** | **Lesson video link** |
| Prime factor tree | <https://vle.mathswatch.co.uk/vle/browse/236> |
| LCM and HCF | <https://vle.mathswatch.co.uk/vle/browse/238><https://vle.mathswatch.co.uk/vle/browse/237> |
| Reciprocal of a number | <https://vle.mathswatch.co.uk/vle/browse/234> |
| Estimation | <https://vle.mathswatch.co.uk/vle/browse/249> |
| Simple interest | <https://vle.mathswatch.co.uk/vle/browse/269> |
| Compound interest | <https://vle.mathswatch.co.uk/vle/browse/331> |
| Fractions: **+, -, x, ÷** | <https://www.loom.com/share/20614fea39494c3c91b85b709eae0dee> |
| Standard form | <https://vle.mathswatch.co.uk/vle/browse/241> |
| ALGEBRA SKILLS |
| Expand and simplify algebraic expressions | <https://vle.mathswatch.co.uk/vle/browse/295> |
| Factorising simple expressions | <https://vle.mathswatch.co.uk/vle/browse/252> |
| Solving equations with letter on one side and both sides | <https://vle.mathswatch.co.uk/vle/browse/297> |
| Rearranging equations | <https://vle.mathswatch.co.uk/vle/browse/299> |
| Nth term of linear and quadratic sequence | <https://www.loom.com/share/8c8fda1589e24860b9f9cd453e362cde> |
| Substitution | <https://vle.mathswatch.co.uk/vle/browse/253> |
| Multiplying double brackets | <https://vle.mathswatch.co.uk/vle/browse/296> |
| Factorising simple quadratic expressions | <https://www.loom.com/share/6a9534d9115b426b873b76cd48b2a1e6> |
| Simplifying expressions: **X and ÷** | <https://vle.mathswatch.co.uk/vle/browse/189><https://vle.mathswatch.co.uk/vle/browse/190> |
| SHAPES AND GEOMETRY |
| Angles on parallel lines | <https://vle.mathswatch.co.uk/vle/browse/279> |
| Pythagoras’s theorem | <https://vle.mathswatch.co.uk/vle/browse/314> |
| Area of rectangle, triangle and parallelogram | <https://www.loom.com/share/f7c0467c858f450da97fac3b20e9361c> |
| Area of a trapezium | <https://www.loom.com/share/b483cc983efe4cbe9de9877d7bbd8308> |
| Area and circumference of circles | <https://vle.mathswatch.co.uk/vle/browse/276><https://vle.mathswatch.co.uk/vle/browse/277> |
| Volume of prisms | <https://vle.mathswatch.co.uk/vle/browse/278> |