



2022 revision support for learners: National 5 Mathematics

Guidance for the 2022 exam

We **will not** assess you on the following topics in the 2022 National 5 Mathematics exam:

- ◆ vectors
- ◆ similarity
- ◆ 3D coordinates
- ◆ rationalising the denominator of a fraction
- ◆ using the law of indices $a^{\frac{m}{n}} = \sqrt[n]{a^m}$ to simplify expressions
- ◆ working with depreciation
- ◆ expanding brackets of the form $ax(bx + c)$ where $a, b, c, d \in \mathbb{R}$
- ◆ factorising algebraic expressions using a combination of common factor, difference of two squares, and trinomials
- ◆ identifying the gradient and y -intercept from various forms of the equation of a straight line
- ◆ finding the graphical solution to simultaneous equations
- ◆ changing the subject of a formula involving a linear equation
- ◆ recognising and determining the equation of a quadratic function from its graph
- ◆ sketching a quadratic function of the form $y = k(x + p)^2 + q$ where $k, p, q \in \mathbb{Z}$
- ◆ identifying the equation of the axis of symmetry of a quadratic graph
- ◆ using the discriminant
- ◆ calculating the area of a sector
- ◆ working with the graphs of trigonometric functions involving a vertical translation and/or a change in phase angle
- ◆ using bearings to find a distance or direction
- ◆ determining the equation of a best-fitting straight line on a scattergraph, and using it to determine y given x
- ◆ comparing data sets using a calculated or determined interquartile range

You should use this information to help you plan your revision and prepare for the exam.

Remember to look out for *Your Exams*. This guide contains essential information and rules that you need to know about SQA exams.