

## Topics which did not appear on Higher Linear paper 3

This is a list of topics that are more likely to appear on the Linear Higher exam paper this Friday 10<sup>th</sup> June, 9am

### Grade D

- Ratio
- Addition and subtraction of fractions
- Solve equations with unknowns on both sides of the equal sign
- Plot and draw straight line graphs (E.g  $y = 3x + 2$ )
- Calculate missing angles in parallel lines (E.g. alternate and corresponding angles)
- Calculate missing angles in polygons E.g. (interior and exterior angles)
- Identify and draw enlargements with a centre
- Interpret or draw scatter diagrams, stem and leaf diagrams, frequency diagrams, frequency polygons

### Grade C

- Products of prime factors (E.g.  $2^3 \times 5^2$ )
- Increase or decrease a quantity by a percentage
- Calculate a percentage increase or decrease ( $\% \text{ profit} = \text{profit} \div \text{original amount} \times 100$ )
- Change the subject of a formula
- Find and use the **n**<sup>th</sup> term of a sequence
- Use **trial and improvement** to solve an equation
- Area and circumference of a circle (you need to **learn**  $C = \pi d$  and  $A = \pi r^2$ )
- Volumes and surface area of **prisms**. (the formula is on the formula page of the exam)
- Calculate **mean** average and **estimated means** from frequency tables

### Grade B

- Reverse percentage E.g. calculate an original amount.
- Repeated percentage change E.g increase £200 by 4% over 5 years
- Use and calculate with **standard index form** (remember  $6 \times 10^3$  can be written  $6 \times 10^3$  on a calculator)
- Plot graphs of quadratic or cubic equations E.g.  $y = x^2 + 3x - 6$
- Trigonometry (**SohCahToa**)
- Calculate missing lengths in **similar** shapes
- Calculate and plot **moving averages**

### Grade A

- Use fractional, negative and zero powers
- Inverse and direct proportion
- Calculate lengths arcs and sectors in circles
- Calculate the surface area or volume of pyramids, cones and spheres ( remember to look at the formula page of the exam paper)