National 5 Applications of Maths - Prelim - what you need to know:

Fractions	
Top Heavy Fractions and Mixed Numbers	
Adding and Subtracting Fractions	
Comparing Fractions	
Calculating time intervals including time zones and interpreting timetables Distance/Speed/ Time (involves changing hours and minutes to decimal times, and changing decimal times back to hours and minutes)	
Perimeter and area of: square, rectangle, triangle, kite, rhombus, trapezium, circle, half a circle, quarter of a circle, composite shapes), circumference of a circle	
Volume and Capacity (cube, cuboid, prism, cylinder, cone, pyramid, sphere composite shapes)	
Graphs/Charts/Tables	
Probability	
Finance:	
• Income	
 Wages and Salaries - weekly, monthly, annually, calculating hourly rate 	
 Overtime - double, time and a half, treble, calculating hourly rate 	
Calculating Commission	
• Gross Pay, Deductions, Net Pay	
• Payslips	
Wage increase & decreases	
• Tax Allowance	
• Rates of Income Tax (0%, 20%, 40%, 45%)	

Hire Purchase
• Insurance
• Profit & Loss
 Foreign Exchange (use of at least two/three currencies in a multi- stage task)
• Simple Interests + savings
Compound Interests
• Borrowing Money - loans, credit cards, store cards, credit agreements
• Best Deals - per unit, e.g. 100g, 1l, etc.
Statistics:
• Mean, median, mode, range to compare data
• Finding quartiles
 Calculating and interpreting Interquartile Range (IQR)
Boxplots - constructing, interpreting and comparing
Standard Deviation - calculating and comparing
Tolerance - Involving Percentages and effects of applying tolerance Rules & Formulae
• Formulae in Words - Based on two related pieces of information
• Formulae with Symbols - Based on two related pieces of information
Pythagoras' Theorem Problem Solving in Context - two stage calculations, e.g. Pythagoras and gradient, Pythagoras and area, etc.
Gradients

• Calculating VAT

- Calculating gradient using vertical distances and horizontal distances
- Using Gradients to solve problems
- ☐ Problem Solving
 - Effective Packaging
 - Precedence Tables and Diagrams
- ☐ Scale drawings and scale drawing with bearings