Assessment Tasks Numeracy (Year 9)
Interpreting tables, Calculating percentages of amounts, calculating with money, using time to solve problems, calculating the area of circles, converting between currencies.

Assessment Booklet 1 – Topic 1 (Year 9)

Recognise and apply key mental facts and strategies.
Use known facts to derive others, e.g. use 7x6 to derive 0.7x6.
Multiply and divide whole numbers and decimals.
Use the order of operations including brackets and powers.
Use known facts to derive others, e.g. use 7x6 to derive 42÷0.0006.
Multiply, divide and use brackets with powers.
Use the four operations in multistep calculations involving negative numbers, using mental and written methods.
Use a variety of mental and written methods for computation (Level 4).
They use their understanding of place value to multiply and divide whole numbers and decimals (Level 5)
They understand the effects of multiplying and dividing by numbers between 0 and 1 (Level 7)
Use powers and understand the importance of powers of 10, **and its application in standard form, e.g. $2^3 \times 2^4 = 2^7$**
Show awareness of the need for standard form and its representation on a calculator.
They solve problems involving calculating with the extended number system, including powers, roots and standard form (Level 8).
Represent standard form on a calculator.
They solve numerical problems with numbers of any size, using a calculator efficiently and appropriately (Level 7).
Write a number as a product of prime factors in index form.

Assessment Booklet 1 - Topic 2 (Year 9)

Use equivalence of fractions, decimals, percentages **and ratio** to select the most appropriate for a calculation.
Use, interpret **and calculate with** different representations of fractions, e.g. mixed numbers and improper fractions.
They use the equivalences between fractions, decimals and percent=ages and calculate using ratios in appropriate situations (Level 6).
Calculate a percentage increase or decrease.
Express one percentage as a quantity of another, **including those given in different units.**
They calculate one number as a fraction or percentage of another (Level 6).
Use ratio and proportion to calculate quantities**, including cases where the 'total' is not given.**
Calculate proportional change (Level 7).