Assessment Booklet – Numeracy (Year 8)

Choosing the best option.
Calculating with money.
Using bearings.
Showing the method used and explaining your reasoning.

Assessment Booklet 1 – Topic 1 (Year 8).

Recognise and apply key mental facts and strategies.
Use known facts to derive others, e.g. use 7x6 to derive 0.7 x 6.
Use efficient written methods to add and subtract numbers with up to 2 decimal places.
Use efficient methods for multiplication and division of whole numbers and decimals, including decimals such as 0.6 and 0.06.
Use knowledge of place value to multiply and divide whole numbers by 10 and 100 (L4)
Use knowledge of place value to multiply and divide whole numbers and decimals (L5)
Add and subtract decimals to 2 dp (L4)
Use trial-and-improvement methods involving approximating and ordering decimals (Level 6)
Multiply and divide fractions.
Use the terms cube, cube root and reciprocal.
Express cube numbers using powers.
Express repeated multiplications as powers, e.g. $7x7x7x7x7x7 = 7^6$
Write numbers as a product of prime factors in index form

Assessment Booklet1 – Topic 2 (Year 8).

Calculate areas of compound shapes (e.g. consisting of rectangles, triangles.
Devise and use formulae to calculate the area of trapezia and kites.
Use formulae for finding the area of plane rectilinear figures (Level 6)
Find areas of circles.
Find the areas of circles**, semicircles and quadrants (Year 9 POS)**
Use formulae for finding the area of circles (Level 6)
Use the common units of measure, convert between related units of the metric system and carry out calculations.
Understand units of length, capacity, mass and time (Level 3).
Convert one metric unit to another (Level 5).
Make sensible estimates of a range of everyday measures (Level 5)
Use the common units of measure, convert between related units of the metric system and carry out calculations.
Choose and use suitable units and instruments, reading, with appropriate accuracy, numbers on a range of measuring instruments (Level 4).
Know rough metric equivalents of imperial units in daily life (Level 5).
Draw triangles accurately given lengths and angles, using ruler and protractors (Year 7 POS).
Construct triangles given three lengths, using a ruler and compasses.
Identify sets of lengths that cannot form a triangle.
Select and use appropriate equipment to draw triangles when given sufficient angles and sides (Year 9 POS).