Multiplicative reasoning:

| Objective | Sparx Task | |
|--|------------|--|
| Recall speed formulae and use to find variables (or proportional reasoning) | U753 | |
| | U865 | |
| | U610 | |
| | U151 | |
| Interpret and understand distance/time graphs | U403 | |
| | U914 | |
| Recall and use formulae for density. Link to volumes | U910 | |
| Recall and use formulae for pressure | | |
| | 0527 | |
| Convert between different compound units. | U256 | |
| Substitute into the various kinematics formulae | U144 | |
| Use percentage as an operator (profit, loss, repeat | U286 | |
| percentage change, original amounts) | | |
| Use compound interest | U332 | |
| Use a variety of measures within proportion problems | U256 | |
| (e.g. currency, rates of pay) | | |
| Understand types of proportion (direct/inverse) and start to interpret growth/decay problems | U721 | |
| | U357 | |
| | U640 | |

Shapes and Angles:

| Objective | Sparx Task |
|---|------------|
| Understand and use properties of triangles and quadrilaterals | U628 |
| | U732 |
| Measure, draw and estimate angles using a protractor | U447 |
| Apply simple angles rules such as angles on a straight line, around a point and vertically opposite angles. | U390 |
| | U730 |
| Understand and use angle sum for a triangle and quadrilateral | U329 |
| Understand and use the parallel line angles rules | U826 |

| Recognise and name polygons. Understand regular and irregular polygon properties | U427 | |
|--|------|--|
| Apply interior/exterior angles in polygons | | |
| Solve mixed angle problems | | |

Pythagoras and Trigonometry:

| Objective | Sparx Task |
|--|------------|
| Use Pythagoras' theorem in 2D | U385 |
| Apply Pythagoras in different contexts such a | |
| coordinate geometry and with a range of shapes and | |
| units | |
| Recall the trigonometric ratios for Sine, Cosine and | U605 |
| Tangent | |
| Use trig to find a missing length in a right angled | U283 |
| triangle | |
| Use trig to find an angle in a right angled triangle | U545 |
| (includes angles of elevation/depression) | |
| Solve problems using trigonometry/Pythagoras that | |
| incorporate other aspects of the syllabus such as area | |
| and perimeter. | |
| Know the exact trig angles for 0,30,45, 60 and 90 for | U627 |
| all three trig ratios (excluding tan90) | |