

## **Topics:** Gaps teaching from papers 1, 2 & 3 (class specific) Geometry – Pythagoras Theorem and Trigonometry Home Learning: Students are expected to complete one piece of home learning every week as well as addressing areas that they have recorded as requiring further attention via their Personal Learning Checklist. The PLC links to corresponding MathsWatch clips and practice questions Diagnosis **Key Questions:** • Have you reviewed areas of underperformance in your exams? Can you now answer 10 question diagnosis tests for each exam style questions on these topics? half term • What is the longest side of a right-angle triangle known as? Retrieval activities from knowledge organisers like starter guizzes A girl guide ties a wire to a flag pole to secure it. The flag pole is 7m long and she is to anchor it 4.5m away from the base of the flag pole. How long must the wire be for her Mini whiteboard activities to do this? A ladder that is 6m long is placed against a wall. It makes a 34° angle with the wall. • Find a) How high up the wall it reaches b) The distance of the base of the ladder from the wall Therapy Students will: Sharing model responses Use their QLA and PLCs to address areas that need to develop (teacher/student led feedback) To know what Pythagoras' theorem is **DIRT** tasks To calculate the length of the hypotenuse in a right-angled triangle • Peer to peer support in lessons To calculate the length of a shorter side in a right-angled triangle • To solve problems using Pythagoras' theorem Specific highlighted lessons for ٠ To define, understand and use the three trigonometric ratios students ٠ To use trigonometric ratios to calculate a length in a right-angled triangle Testing ٠ To solve practical problems using trigonometry Students will complete an To use trigonometry to solve problems involving isosceles triangles assessment each half term from • To solve problems using an angle of elevation or an angle of depression. which they will receive a detailed To work out and remember trigonometric values for angles of 30°, 45°, 60° and 90° QLA to continue to highlight areas of weakness into the next half term.