

Teaching and Learning Content: Mathematics
Year Group: 11 Higher
Spring Term – Half Term 4



Topics:

Gaps teaching from papers 1, 2 & 3 (class specific)
 Geometry – Vectors

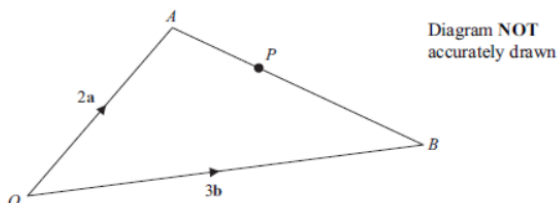
Home Learning:

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

Key Questions:

- Have you reviewed areas of underperformance in your exams? Can you now answer exam style questions on these topics?

Let $\mathbf{a} = \begin{pmatrix} 1 \\ 5 \end{pmatrix}$ and $\mathbf{b} = \begin{pmatrix} 2 \\ 2 \end{pmatrix}$ Write $\mathbf{a} - \mathbf{b}$ as a column vector.



OAB is a triangle.

$$\overrightarrow{OA} = 2\mathbf{a}$$

$$\overrightarrow{OB} = 3\mathbf{b}$$

(a) Find AB in terms of \mathbf{a} and \mathbf{b} .

$$\overrightarrow{AB} = \dots\dots\dots (1)$$

Diagnosis

- 10 question diagnosis tests for each half term
- Retrieval activities from knowledge organisers like starter quizzes
- Mini whiteboard activities

Therapy

- Sharing model responses (teacher/student led feedback)
- DIRT tasks
- Peer to peer support in lessons
- Specific highlighted lessons for students

Students will:

- Use their QLA and PLCs to address areas that need to develop
- To add and subtract vectors
- To multiply vectors by a scalar
- To represent a vector in diagrammatic and column form
- To use vectors to solve geometric problems
- To use vectors to construct geometric arguments and proofs

Testing

- Students will complete an assessment each half term from which they will receive a detailed QLA to continue to highlight areas of weakness into the next half term.