Birches Head Academy

Part of the Frank Field Education Trust

Year 9 Maths
Learning Programme 4

Reading texts that pupils will study during the learning programme

Loric for LP4 is Initiative

The values we are learning about are integrity and gratitude	Problem solving questions on rotation of a shape, enlargement of a shape, Pythagoras' theorem

Integrity - Being honest and having strong moral principles

Gratitude- the quality of being thankful and showing appreciation

What will I be learning about in this Learning Programme?
Rotation & translation, Pythagoras' theorem, enlargement & similarity, proportion.

Where have I seen this learning before?
Coordinates, square and square roots, scale factors

What could I use it for?
in combination with other topics to solve multi step problems in KS3 and KS4.

In LP3.1, I will know : 10/03/2025 - (WK 2)	Behaviour to support the values: STEPS/SLANT	Homework
how to prepare for an assessment; assessment.	I will show integrity by expressing gratitude to others.	Homework tasks are located in the Knowledge Organisers

In LP3.2, I will know : 17/03/2025 - (WK 1)	Behaviour to support the values: STEPS/SLANT	Homework
how to prove conjectures with angles; how to prove conjectures with shapes.	I will show gratitude by showing my appreciation when someone does something nice.	Homework tasks are located in the Knowledge Organisers

In LP3.3, I will know : 24/03/2025 - (WK 2)	Behaviour to support the values: STEPS/SLANT	Homework
how to identify the order of rotational symmetry of a shape; how to compare and contrast rotational symmetry with line symmetry; how to rotate a shape about a point on a shape. Extended Task	I will show integrity by taking responsibility for my actions whether they be good or bad.	Homework tasks are located in the Knowledge Organisers

In LP3.4, I will know : 31/03/2025 - (WK 1)	Behaviour to support the values: STEPS/SLANT	Homework
how to rotate a shape about a point not on a shape; how to translate points and shapes by a given vector; how to compare rotation and reflection of shapes.	I will show gratitude by completing a random act of kindness.	Homework tasks are located in the Knowledge Organisers

PRT Task 1

In LP3.5, I will know : 21/04/2025 - (WK 2)	Behaviour to support the values: STEPS/SLANT	Homework
how to identify the hypotenuse of a right-angled triangle; how to determine whether a triangle is right-angled; how to calculate the hypotenuse of a right-angled triangle.	I will show integrity by being reliable and trustworthy.	Homework tasks are located in the Knowledge Organisers

In LP3.6, I will know : 28/04/2025 - (WK 1)	Behaviour to support the values: STEPS/SLANT	Homework
how to calculate missing sides in right-angled triangle; how to use Pythagoras' theorem on coordinate axes; how to explore proofs of Pythagoras' theorem. Extended Task	I will show gratitude by being respectful.	Homework tasks are located in the Knowledge Organisers

In LP3.7, I will know : 05/05/2025 - (WK 2)	Behaviour to support the values: STEPS/SLANT	Homework
how to recognise enlargement and similarity; how to work out missing sides and angles in a pair of given similar shapes; how to enlarge a shape by a positive integer scale factor.	I will show integrity by showing patience and flexibility when obstacles get in the way.	Homework tasks are located in the Knowledge Organisers

PRT Task 2

Resources to support learning:
Students will be given login details by their class teacher. Homework will be linked to clip numbers on this website.

FFET Award Challenge for this Learning Programme:
Test your mathematical reasoning and problem-solving skills with the UKMT Intermediate challenge.