Birches Head Academy

Part of the Frank Field Education Trust

Year 10 Maths
Learning Programme 4

The LORIC skill focus for this LP is: INITIATIVE.
The Moral Values foci for this LP are: INTEGRITY and GRATITUDE.

Integrity - Having strong moral principles. I will show integrity by taking responsibility for my actions.
Gratitude - Feeling and expressing thanks. I will show gratitude by saying please and thank you.

What will I be learning about in this Learning Programme?
In LP4 pupils will focus on, cubic, reciprocal and exponential graphs, arithmetic and geometric sequences, quadratic and geometric sequences, sampling, direct and inverse proportion, transforming shapes.

Where have I seen this learning before?
Reciprocals, cubic equations, sequences, data collection, ratio, proportion, reflection, rotation, enlargement, translation.

What could I use it for?
In combination with other topics to solve multi-step problems.

Literacy Non-Negotiables:
- Capital letters must be used at the start of sentences and for the first letter of proper nouns
- Full stops must be used at the end of a sentence
- Question marks must be used at the end of a question
- Apostrophes should only be used for possession or omission
- Days of the week and months must be spelled correctly
- Key words must be spelled correctly
- Vocabulary to be taught using the Frayer model

In LP4.1, I will know: 09/03/26 - (WK 2)	Frayer Model Words	Homework
how to plot and interpret graphs of cubic functions how to plot and interpret graphs of reciprocal functions how to plot and interpret graphs of exponential functions.	exponential	Complete your weekly homework on https://sparxmaths.com/
In LP4.2, I will know: 16/03/26 - (WK 1)	**Frayer Model Words**	**Homework**
how to understand position-to-term rules for arithmetic sequences how to understand position-to-term rules for sequences of patterns how to understand position-to-term rules for special and geometric sequences	nth term	Complete your weekly homework on https://sparxmaths.com/
In LP4.3, I will know: 23/03/26 - (WK 2)	**Frayer Model Words**	**Homework**
how to use sampling and understand bias how to solve capture-recapture problems Extended Task.	discrete data	Complete your weekly homework on https://sparxmaths.com/
In LP4.4, I will know: 13/04/26 - (WK 1)	**Frayer Model Words**	**Homework**
how to interpret direct proportion equations how to construct direct proportion equations how to interpret graphs of direct proportion	proportion	Complete your weekly homework on https://sparxmaths.com/
In LP4.5, I will know: 20/04/26 - (WK 2)	**Frayer Model Words**	**Homework**
how to interpret inverse proportion equations how to construct inverse proportion equations how to interpret graphs of inverse proportion	inverse	Complete your weekly homework on https://sparxmaths.com/
In LP4.6, I will know: 27/04/26 - (WK 1)	**Frayer Model Words**	**Homework**
how to solve combined transformations problems how to enlarge by a positive scale factor how to enlarge by a negative scale factor Extended Task.	enlargement	Complete your weekly homework on https://sparxmaths.com/
In LP4.7, I will know: 04/05/26 - (WK 2)	**Frayer Model Words**	**Homework**
how to find error intervals how to find bounds for calculations	bound	Complete your weekly homework on https://sparxmaths.com/

PRT Task 1

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. https://sparxmaths.com/

FFET Award Challenge for this Learning Programme:
Complete 100% of SPARX maths homework every week.