Year 8	Unit 2		21 Lessons

Aims:
To consolidate and develop pupils' number skills, with particular focus on number representation and proportion.

Key Skills		Literacy Links:	Numeracy Links:
Understanding the different ways same values can be represented, using proportionality to reason solutions in a variety of different formats. • **Excellence** Change between standard form and numbers, calculate with standard form, solve direct/inverse proportion problems, solve more complex similar shapes problems. • **Secure** - Calculate square and cube roots, simplify surds being multiplied and divided, share real life problems in a ratio, solve basic problems involving similar shapes. • **Developing** - Solve inverse problems, solve square and cube numbers, solve recipe problems and share in a ratio, solve proportion problems involving fractions and percentages. • **Emerging** - Solve equations following BIDMAS, simplify ratios, use fractions to represent proportion.		Keywords: indices, numerator, denominator, proportion, similar, surds, inverse, standard form.	Embedded throughout.

Assessment	Cross-Curricular Links
Pre-test at the beginning of the unit to establish prior learning, post-test at the end of the unit to determine progress.	Proportion can link well to design - food tech
	SMSC opportunities and British values
	Ratios - real life problems involving recipes, money problems.

Opportunities for further learning
Mymaths sections on powers and roots, standard form in the NUMBER category as well as proportion in the RATIO AND PROPORTION category.