Year 7- Mathematics

## Links to careers/SiVISC/Personal Development

In Algebra lessons we will share the appreciation with the pupils that mathematics, its language and symbols have developed from many different cultures around the world: e.g. Egyptian, Indian, Islamic, Greek and Russian roots
Celebrate Pi day and show appreciation to Maths and Science
UKMCT challenge for year 7 to develop problem solving skills
World numeracy day to promote the love and appreciation of numeracy skills to use in daily life
Maths related career's when a specifictopic is taught. i.e. The use of prime numbers in Cryptography

LEARNING JOURNEY
和
FHS
sific
ig

Transformations
Project : Designing a Theme Park

atio and Proportion

Multiplicative Relationships

Order of operations

Equivalent Fractions
Arithmetic with Fractions

Understanding multiplicative relationships
Calculating with Fractions

Kenny says '20 is a square number because $10^{2}=20^{\prime}$. Explain why Kenny is wrong. Kenny is partially correct. How could he change his statement so that it is fully correct?


## In year 7 we will explore the following

place-value system for integers and decimals are introduced in primary schools which is based on powers often
the structure of number system and the ways of representing it using factortrees and Venn Diagrams
higher powers for integers and their roots (square, cube and others)
how negative numbers are calculated and how the power notation is linked to our number system gain more fluency in calculations using integers, decimals, negative numbers, and fractions
relationships between numbers of structures to calculate efficiently
how numerical statements are written using algebra
algebraic notations and techniques to generalise number manipul ations learn how algebra is linking numbers system and operations on numbers perimeter and area of circles and other common 2 D shapes ratio and proportion
multiplicative relationships connecting fractions, percentages, and ratios transformation of shapes in a Cartesian plan

