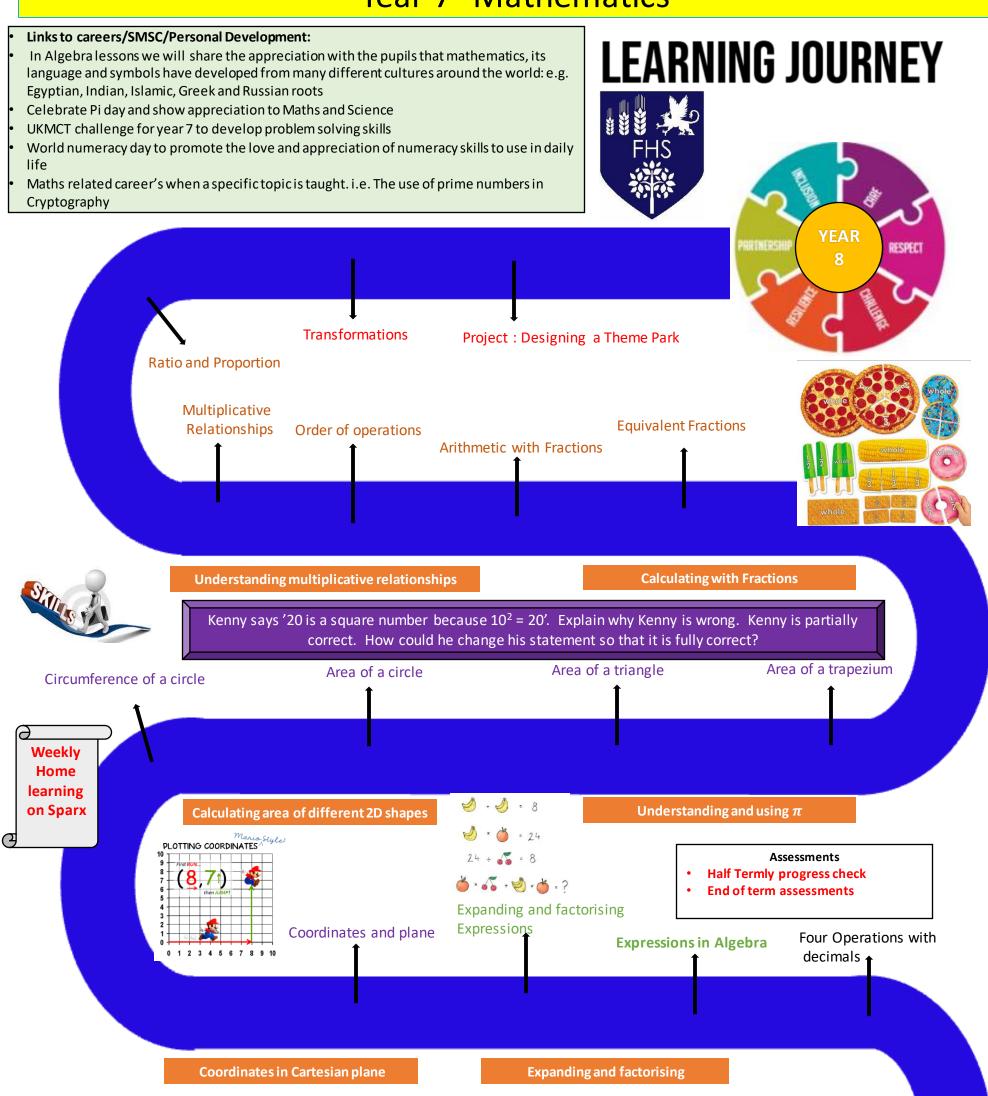
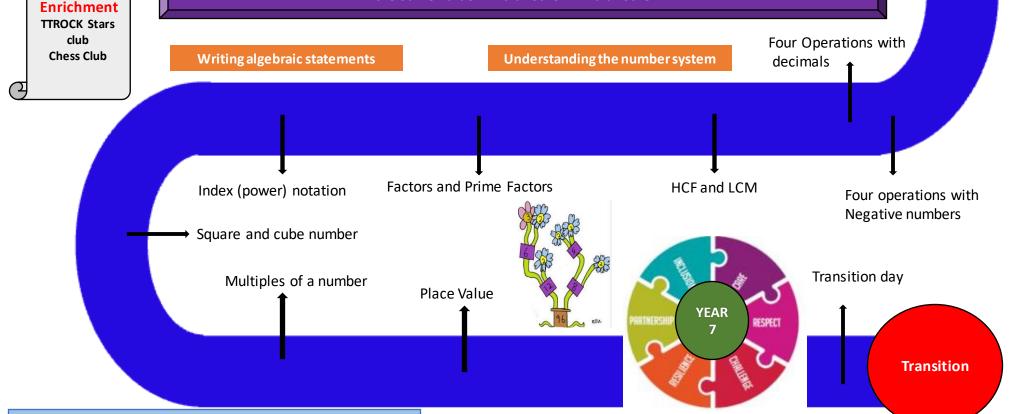
Year 7- Mathematics





Year 7 learning summary: Rationale

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 of ten

the structure of number system and the ways of representing it using factor trees 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 manipulations

 $\label{eq:learn} learn how algebra is linking numbers system and operations on numbers$

 $coordinate\,system\,using\,x\,and\,y\,as\,input\,and\,output\,function$

perimeter and area of circles and other common 2D shapes

ratio and proportion

 $\overline{\mathcal{A}}$

multiplicative relationships connecting fractions, percentages, and ratios transformation of shapes in a Cartesian plane

