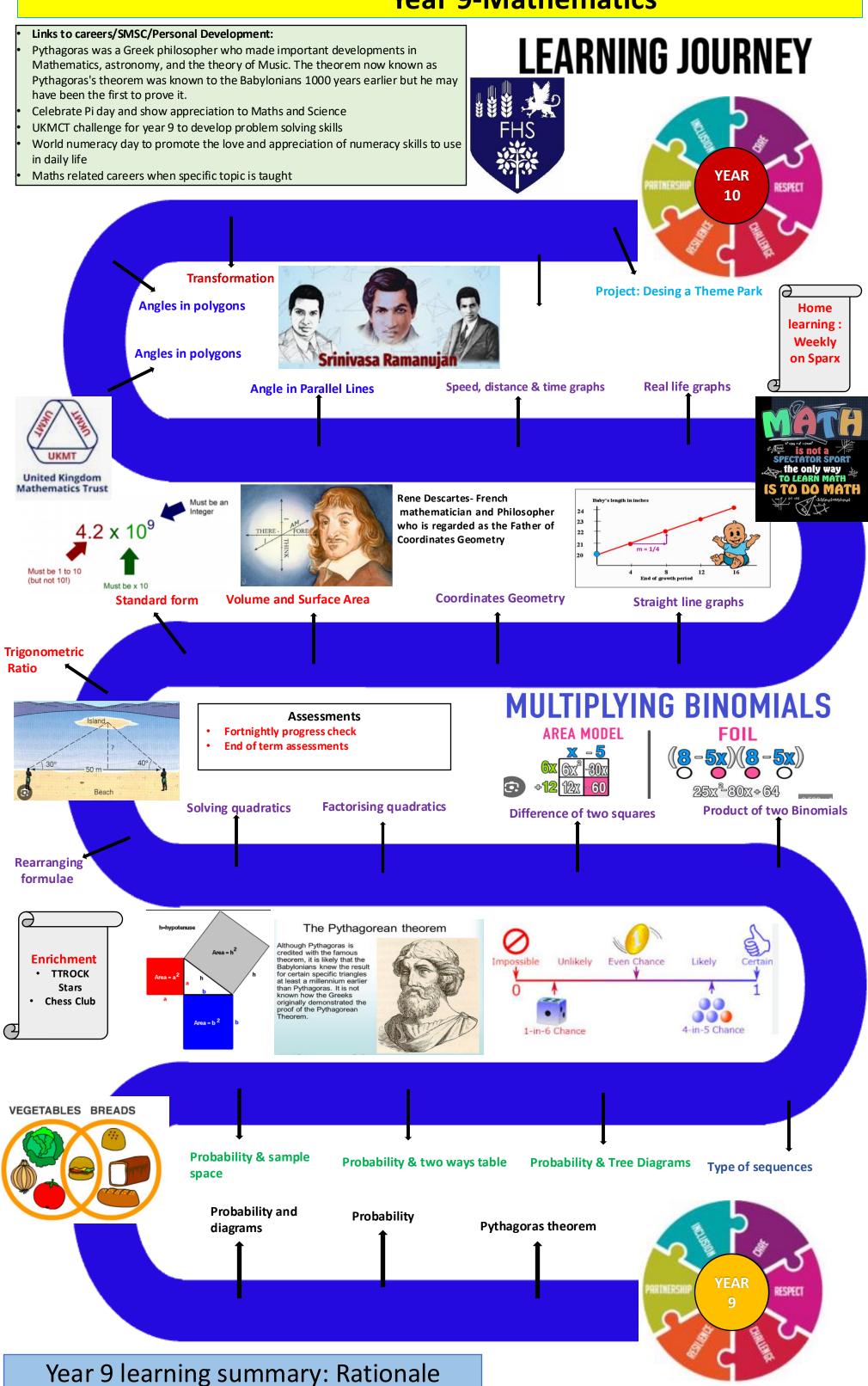
Year 9-Mathematics



In Year 9 we will explore the following: We believe the following

While students have heard or learnt about Pythagoras' theorem, students will investigate, explore and derive the theorem. Student s beyond and use it in real life scenarios

introduction to probability and words that are associated with probability such impossible, likelihood and certain

on how probability is used in many aspects of their daily lives, from sporting events to weather reports. However, students may feel that their lived experiences do not reflect calculated mathematical likelihoods

Consolidate, secure and deepen their understanding of sequences and patterns and will progress to describing any term directly in relation to its position in the sequence

In Year 7 autumn term, students used the distributive law to expand a single term over a binomial. Here we will use the same law to work with pairs of binomials and expand two or more brackets expansion is a generalisation of the familiar 'grid method' for multiplication

develop the use of standard form and will deepen their understanding of the different ways that numbers can be expressed and will become more proficient in changing from one form to another the connections between equations of lines and their corresponding graphs, including those presented in a non-standard form, such as ax + by = c, as well as the more standard y = mx + c how similarity and scale factors are linked it to trigonometric functions and the fundamental ratios of $\sin \theta = opp/hyp$, $\cos \theta = adj/hyp$ and $\tan \theta = opp/adj$

Extend their understanding of angle reasonings with angles in parallel lines and polygons.

Revisit transformation and construction to make sure students have a good grasped of these topics before moving on to KS4,