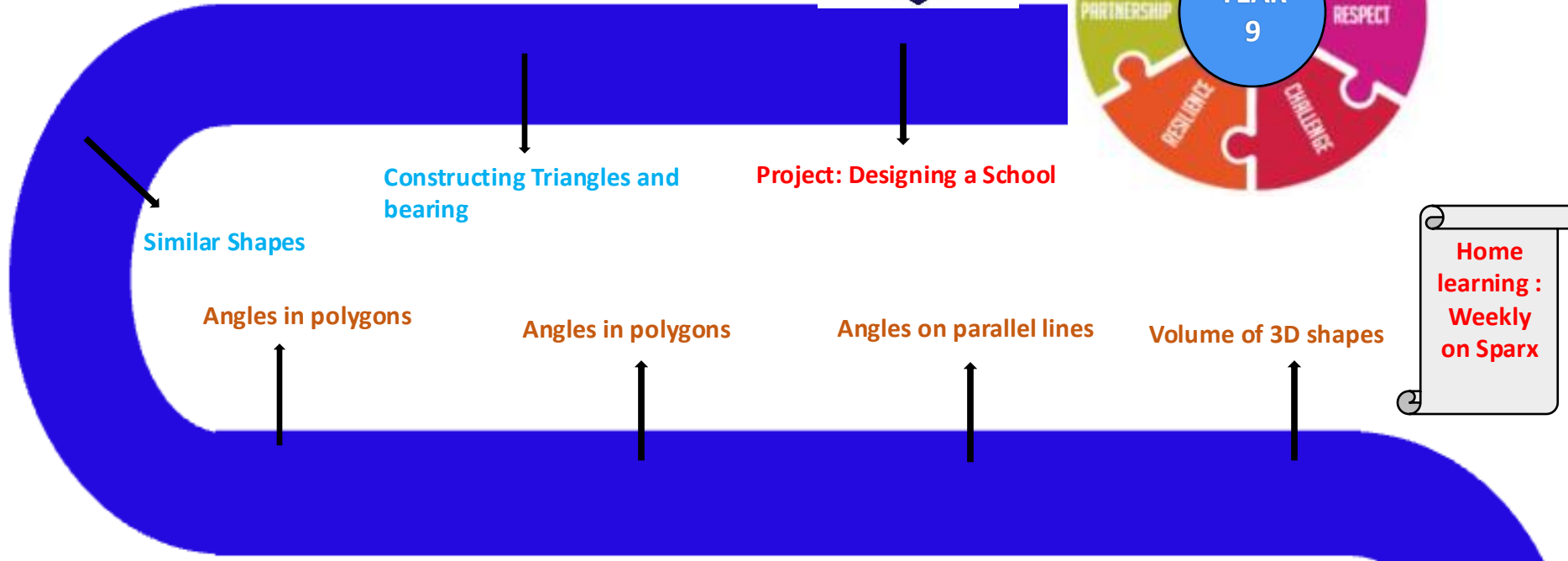


Year 8-Mathematics

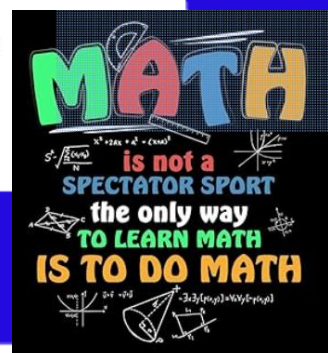
- Links to careers/SMSC/Personal Development:
- Maths in Nature is embedded in sequences, patterns and symmetry in year 8 students will explore the Fibonacci sequence and learn how many things follow similar number pattern
- Celebrate Pi day and show appreciation to Maths and Science
- UKMCT challenge for year 8 to develop problem solving skills
- World numeracy day to promote the love and appreciation of numeracy skills to use in daily life
- Maths related careers when specific topic is taught



LEARNING JOURNEY

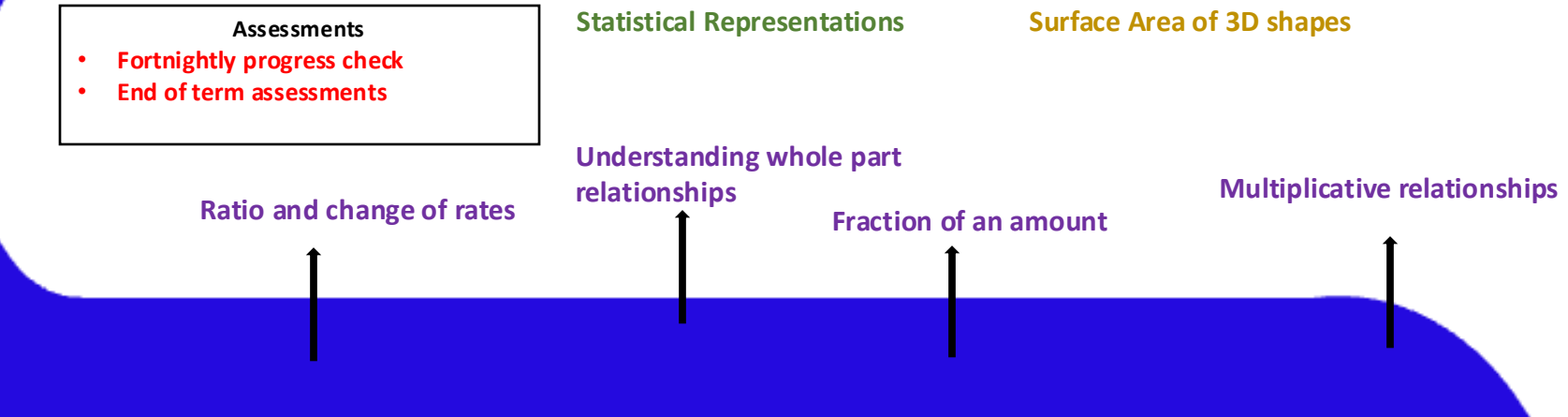


Home learning : Weekly on Sparx

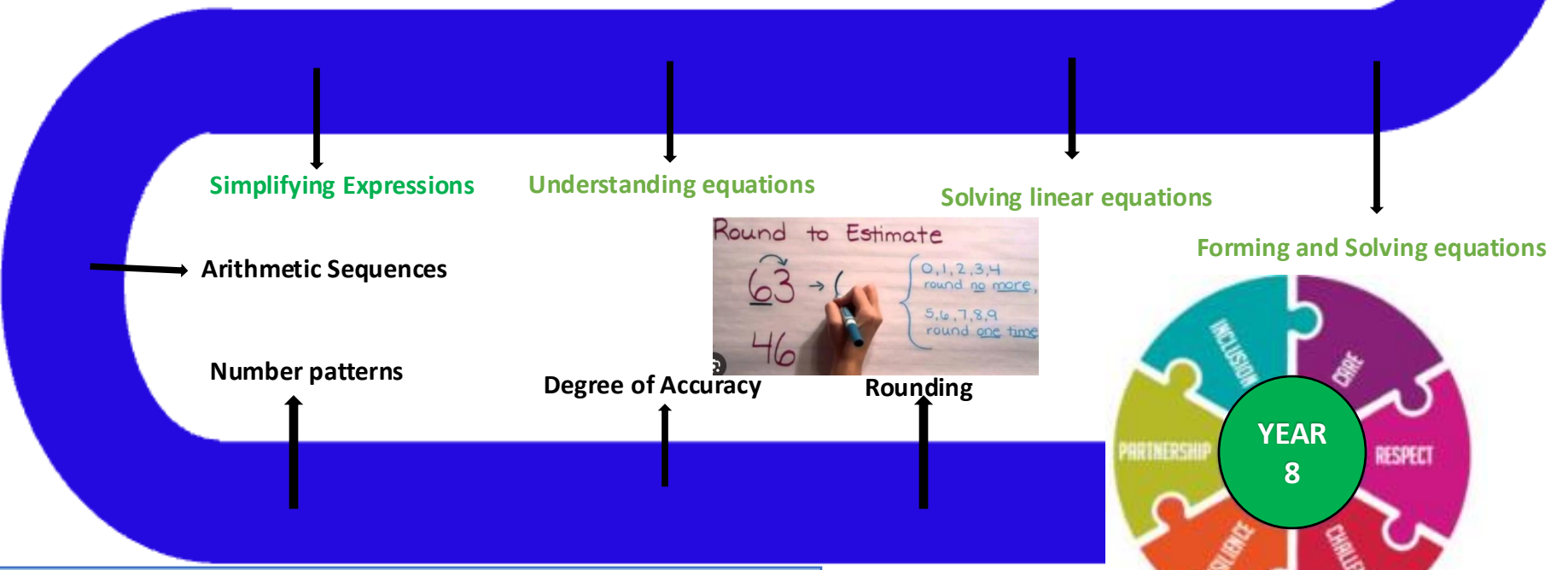


Direct and inverse proportion

- Assessments**
- Fortnightly progress check
 - End of term assessments



- Enrichment**
- TTROCK Stars
 - Chess Club



Year 8 learning summary: Rationale

We believe these topics will have to be taught in year 8 to ensure students can access contents in year 9. For instant, the knowledge of expanding double brackets relies on the knowledge of expanding a single bracket. Year8 will be learning

- a strong sense of the size of numbers and be able to use various methods of rounding, especially when giving answers in context
- non-numerical (shape) and numerical sequences, noticed a pattern, described the pattern in words and found the next term in the sequence from the previous term
- generate and generalise linear sequences
- the Fibonacci sequence and its relevance in the world around us
- a variety of strategies to solve linear equations
- the use of percentages, fractions, proportionality and ratio in context
- the way to develop knowledge of calculating measures of central tendency to include the mode and median, work with grouped data, and be introduced to a measure of spread in statistics.
- how to investigate the surface area of prisms and calculate their volumes
- how to develop angle reasoning in parallel lines and investigate the angles in polygons