Topic Sequence: Representations

4	6	6
Working in the Cartesian Plane	Representing Data	Tables and Probability

Topic Overview: Tables and Probability

Building on from year 7 unit, this reminds students of the ideas of probability, in particular looking at sample spaces and the use of tables to represent these.

Lesson Sequence:

Construct sample spaces for 1 or more events
Building on year 7 knowledge of experiment, event and outcome, students consider sample spaces, listing all possible outcomes in an experiment. Emphasis is placed on a systematic approach to listing all possible outcomes.

Find probabilities from a sample space
Students build on knowledge and understanding of sample spaces to work out probabilities of events. The notation P (event) is introduced. Different ways probabilities can be represented and consideration of when events are and are not equally likely is emphasised.

Find probabilities from two-way tables
Students are guided on which total to use when answering questions and discussion is made around how probabilities can be represented and whether fractions need to be simplified.

Find probabilities from Venn Diagrams
Building on Year 7 work on drawing and interpreting Venn diagrams, students link them to finding probabilities.

Use product rule for finding the total number of possible outcomes
Students are introduced to product rule to find total arrangements. They need to consider whether repeats can be allowed. They will be given the opportunity to design their lists given the number of possible arrangements.

Sequence of Lessons:

1	Construct sample spaces for 1 or more events
2	Find probabilities from a sample space
3	Find probabilities from two-way tables
4	Find probabilities from Venn Diagrams
5	Use product rule for finding the total number of possible outcomes

Topic Resources:

Knowledge Map:	Statistics – ungrouped data

Assessment:

Knowledge:	End of Topic test
Application of Knowledge:	Termly mixed topic assessment

Supportive Reading:

Any supported reading listed here	Sparx Maths www.sparxmaths.co.uk
	Corbett Maths : www.corbettmaths.com
	AQA Revision Guide