



Topic: Probability (chapter 14)

Prior learning:

Fractions
Decimals

Percentages

Learning sequences				Endpoints
	Acquiring	On track	Extending	
Main Learning Steps	<ul style="list-style-type: none"> ■ Understand how to write probability ■ Use probability scale including worded probabilities ■ Find the probability of basic circumstances 	<ul style="list-style-type: none"> ■ Find experimental probabilities ■ Compare experimental and theoretical probabilities ■ Complete probability worded questions 	<ul style="list-style-type: none"> ■ Recognize and use set notation ■ Draw and complete Venn Diagrams ■ Draw and complete two-way tables 	<ul style="list-style-type: none"> ▪ To understand the basic of probability and find basic probabilities ▪ To calculate probability ▪ To find and use relative and experimental probabilities ▪ To represent sets with Venn Diagrams ▪ To complete and use set notation of Venn Diagrams (H) ▪ Complete two-way tables
	<p style="text-align: center;">Working towards</p> <ul style="list-style-type: none"> ■ Calculate probability from a table ■ Calculate probability from given probabilities 	<p style="text-align: center;">Advancing</p> <ul style="list-style-type: none"> ■ Represent sets in Venn diagrams ■ Complete two-way tables 		
Assessments	<ul style="list-style-type: none"> • Check of understanding in class and homework • Included in the end of year assessment 			

Where will we use these ideas again: Probabilities Venn Diagrams	Frequency Trees Probabilities Trees
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Topic: Averages and Data

Prior learning:
Timetables
Use of a calculator

Tally Charts
Frequency tables

Collecting Data
Questionnaires

Learning sequences				Endpoints
	Acquiring	On track	Extending	
Main Learning Steps	<ul style="list-style-type: none"> ■ Understand and use a frequency table and tally charts ■ Conduct and critique surveys and questionnaires ■ Find the MMMR from data 	<ul style="list-style-type: none"> ■ Analyze pie charts ■ Draw pie charts ■ Interpret information from frequency tables 	<ul style="list-style-type: none"> ■ Find the median from a non-grouped frequency table ■ Find the mean, mode and range from grouped frequency table 	<ul style="list-style-type: none"> ▪ To find the mode, median, mean and range from data ▪ To find the MMMR from bar charts when possible ▪ To draw and analyse pie charts ▪ To find the mode, mean and range from a frequency table (non-grouped) (H) ▪ To find mode, mean and range from a frequency table (grouped) (H) ▪ Find the median from a non-grouped frequency table (H)
	Working towards	Advancing		
	<ul style="list-style-type: none"> ■ Find the MMMR when possible, from bar charts 	<ul style="list-style-type: none"> ■ Find the mode, range and mean from a frequency table (non-grouped) 		
Assessments	<ul style="list-style-type: none"> • Check of understanding in class and homework 			

Where will we use these ideas again: MMMR from Grouped Data Data representations	Averages
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Topic: Angles and Construction (chapter 11 and 12)

Prior learning:
Using a compass
Using a protractor

Calculations
Inverse operations
Recall basic shapes

Learning sequences			Endpoints
Acquiring	On track	Extending	
Main Learning steps	<ul style="list-style-type: none"> ■ Use geometric notation to name shapes, angles, lines and points ■ Name angles ■ Draw angles ■ Measure angles 	<ul style="list-style-type: none"> ■ Construct triangle with a protractor ■ Find a missing angle in a scalene triangle ■ Find the missing angle in quadrilaterals 	<ul style="list-style-type: none"> ■ Understand and apply the rule of angles in polygons ■ Apply the knowledge of alternate and corresponding angles to identify angles in parallel lines ■ Find angles in parallel by applying appropriate rules
	<p style="text-align: center;">Working towards</p> <ul style="list-style-type: none"> ■ Recognize and name shapes ■ Find the missing angles on a line and round a point 	<p style="text-align: center;">Advancing</p> <ul style="list-style-type: none"> ■ Construct triangle with a compass ■ Find the missing angle in an isosceles and equilateral triangle ■ identify opposite angles 	
Assessments	<ul style="list-style-type: none"> • Check of understanding in class and homework • End of unit test 		<ul style="list-style-type: none"> ▪ To use geometric notation ▪ To name, draw and measure angles ▪ To recognise and name shapes ▪ To construct various triangles ▪ To find the missing angle on a line and round a point ▪ To find the missing angles in a triangle ▪ To find the missing angles in quadrilaterals ▪ To understand and apply the rule of angles in polygons (H) ▪ To apply knowledge of alternate, corresponding and other rules in parallel (H)

<p>Where will we use these ideas again: Construction Interior and Exterior angles</p>	<p>Angles in parallel</p>
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Topic: Fractional Thinking (chapter 10)

Prior learning:
 Understanding of fractions
 Represent values of fractions

Use of calculator
 4 operations

Learning sequences			Endpoints
	Acquiring	On track	Extending
Main Learning steps	<ul style="list-style-type: none"> ■ Add and subtract fractions with the same denominator 	<ul style="list-style-type: none"> ■ Convert mixed to improper fractions and vice versa ■ Add and subtract fractions changing both denominators ■ Multiply fraction and integer ■ Divide with two fractions 	<ul style="list-style-type: none"> ■ complete all calculations with mixed and improper fractions ■ Complete all calculations with fractions and algebra
	Working towards	Advancing	
	<ul style="list-style-type: none"> ■ Add and subtract fractions when changing one denominator ■ Multiply two fractions 	<ul style="list-style-type: none"> ■ Divide fraction by integers and vice versa ■ Worded and multi-step fractions calculations 	
Assessments	<ul style="list-style-type: none"> • Check of understanding in class and homework 		

<p>Where will we use these ideas again: Fractions, decimals and percentages Fractions and Algebra</p>	<p>Application of fraction calculations</p>
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