

UNIT 5 *Linear Graphs and Equations*

Lesson Plans

St

These are based on 45/50 minute lessons.

<i>Lesson No.</i>	<i>Suggested Plan</i>	<i>References</i>
1.	Coordinates	
	Revise concept - interactively (plotting points and identifying coordinates)	OS 5.1 / OS 5.2
	Exercises	PB 5.1, Q1
	Review answers	
	Exercises	PB 5.1, Q2
	Review answers	
	Set homework	PB 5.1, Q3 and Q8
2.	Straight Line Graphs	
	Discuss homework	
	Plotting a graph	OS 5.3
	Exercises	PB 5.2, Q1
	Review answers	
	Exercises	PB 5.2, Q2
	Review answers	
	Introduce Activity	Activity 5.1
	Set homework	Complete Activity 5.1 or PB 5.2, Q3
3.	Finding the Equation 1	
	Discuss homework	
	Introduction - identifying gradients	OS 5.4
	Exercises	PB 5.2, Q4
	Review answers	
	Exercises	PB 5.2, Q5
	Review answers	
	Set homework	Complete PB 5.2, Q5
4.	Finding the Equation 2	
	Discuss homework	
	Equations of lines	OS 5.5
	Exercises	PB 5.2, Q7
	Review answers	
	Introduce Activity	Activity 5.2
	Set homework	Complete Activity 5.2 or PB 5.2, Q 11

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<i>Lesson No.</i>	<i>Suggested Plan</i>	<i>References</i>
5.	Linear Equations Discuss homework Introduction Exercises - interactively Mental Test Review answers Set homework	OS 5.6 PB 5.3, Q1 M 5.1 Complete PB 5.3, Q1
6.	Revision Test Discuss homework Revision Test	RT 5.1
7.	Recap Give back marked tests Go over test questions interactively Revise topics	

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<i>Lesson No.</i>	<i>Suggested Plan</i>	<i>References</i>
1.	Straight Line Graphs	
	Revise coordinates	OS 5.1 and 5.2
	Exercises	PB 5.1, Q2 and Q3
	Review answers	
	Plotting straight lines	OS 5.3
	Exercises	PB 5.2, Q1
	Review answers	
	Exercises	PB 5.2, Q2
	Review answers	
	Set homework	PB 5.1, Q7 and Q8
2.	Finding the Equation 1	
	Discuss homework	
	Finding gradients	OS 5.4
	Exercises	PB 5.2, Q3
	Review answers	
	Exercises - interactively	PB 5.2, Q4
	Activity	Activity 5.1
	Set homework	Complete Activity 5.1 or PB 5.2, Q5
3.	Finding the Equation 2	
	Discuss homework	
	Finding the equations	OS 5.5
	Exercises	PB 5.2, Q7
	Review answers	
	Activity	Activity 5.2
	Set homework	PB 5.2, Q11 and Q12
4.	Linear Equations	
	Discuss homework	
	Solving equations	OS 5.6
	Exercises	PB 5.3, Q1
	Review answers	
	Equations with brackets	OS 5.7
	Exercises	PB 5.3, Q2
	Review answers	
	Set homework	PB 5.3, Q3 and Q11

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<i>Lesson No.</i>	<i>Suggested Plan</i>	<i>References</i>
5.	Solving Equations from Graphs	
	Discuss homework	
	Introduction	OS 5.8
	Exercises	PB 5.3, Q4
	Review answers	
	Exercises	PB 5.3, Q9
	Review answers	
	Activity	Activity 5.3
	Set homework	PB 5.3, Q10
6.	Parallel and Perpendicular Lines	
	Discuss homework	
	Parallel lines	OS 5.9
	Exercises	PB 5.4, Q3 and Q4
	Review answers	
	Perpendicular lines	OS 5.10
	Exercises	PB 5.4, Q7 and Q8
	Review answers	
	Set homework	PB 5.4, Q11 and Q12
7.	Simultaneous Equations	
	Discuss homework	
	Solving simultaneous equations - graphical method	OS 5.11
	Exercises	PB 5.5, Q1
	Review answers	
	Solving simultaneous equations - elimination method	OS 5.12
	Exercises	PB 5.5, Q4
	Review answers	
	Set homework	PB 5.5, Q11 and Q12
8.	Equations in Context	
	Discuss homework	
	Equations in context	OS 5.13
	Exercises	PB 5.6, Q1
	Review answers	
	Exercises	PB 5.6, Q2
	Review answers	
	Mental Test	M 5.2
	Review answers	
	Set homework	PB 5.6, Q11

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<i>Lesson No.</i>	<i>Suggested Plan</i>	<i>References</i>
9.	Revision Test Discuss homework Revision Test	RT 5.2
10.	Recap Give back marked tests Go over test questions interactively Revise topics	

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E

<i>Lesson No.</i>	<i>Suggested Plan</i>	<i>References</i>
1.	Straight Line Graphs	
	Revise coordinates	OS 5.1 and 5.2
	Exercises	PB 5.1, Q2 and Q3
	Review answers	
	Plotting straight lines	OS 5.3
	Exercises	PB 5.2, Q1
	Review answers	
	Exercises	PB 5.2, Q2
	Review answers	
	Set homework	PB 5.1, Q7 and Q8
2.	Finding the Equations	
	Discuss homework	
	Gradients of lines	OS 5.4
	Exercises	PB 5.2, Q3
	Review answers	
	Exercises - interactively	PB 5.2, Q4
	Finding equations from graphs	OS 5.5
	Exercises	PB 5.2, Q7
	Review answers	
	Set homework	Activity 5.2 or PB 5.2, Q12
3.	Linear Equations	
	Discuss homework	
	Introduction	OS 5.6 and OS 5.7
	Exercises	Parts of PB 5.3, Q1, Q2 and Q3
	Review answers	
	Graphical method	OS 5.8
	Exercises	PB 5.3, Q4
	Review answers	
	Exercises	PB 5.3, Q9
	Review answers	
	Set homework	PB 5.3, Q10 and Q11

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Lesson Plans



<i>Lesson No.</i>	<i>Suggested Plan</i>	<i>References</i>
4.	Parallel and Perpendicular Lines	
	Discuss homework	
	Parallel lines	OS 5.9
	Exercises	PB 5.4, Q3 and Q4
	Review answers	
	Perpendicular lines	OS 5.10
	Exercises	PB 5.4, Q7 and Q8
	Review answers	
	Set homework	PB 5.4, Q11 and Q12
5.	Simultaneous Equations	
	Discuss homework	
	Solving simultaneous equations - graphical method	OS 5.11
	Exercises	PB 5.5, Q1
	Review answers	
	Solving simultaneous equations - elimination method	OS 5.12
	Exercises	PB 5.5, Q4
	Review answers	
	Exercises	PB 5.5, Q8
	Review answers	
	Set homework	PB 5.5, Q11 and Q12
6.	Equations in Context	
	Discuss homework	
	Equations in context	OS 5.13
	Exercises	PB 5.6, Q1
	Review answers	
	Exercises	PB 5.6, Q2
	Review answers	
	Exercises	PB 5.6, Q9
	Review answers	
	Mental Test	M 5.3
	Review answers	
	Set homework	PB 5.6, Q11

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<i>Lesson No.</i>	<i>Suggested Plan</i>	<i>References</i>
7.	Revision Test Discuss homework Revision Test	RT 5.3
8.	Recap Give back marked tests Go over test questions interactively Revise topics	
