

UNIT 13 *Graphs, Equations and Inequalities*

Lesson Plans

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These are based on 45/50 minute lessons.

<i>Lesson No.</i>	<i>Suggested Plan</i>	<i>References</i>
1.	Linear Inequalities	
	Illustrating inequalities - interactively	OS 13.1
	Exercises	PB 13.1, Q1
	Review answers	
	Finding inequalities - interactively	OS 13.2
	Exercises	PB 13.1, Q2
	Review answers	
	Exercises	PB 13.1, Q3
	Review answers	
	Set homework	Complete PB 13.1, Q3
2.	Solving Linear Inequalities	
	Discuss homework	
	Questions in context - interactively	PB 13.1, Q6
	Exercises	PB 13.1, Q7
	Review answers	
	Mental Test	M 13.1
	Review answers	
	Set homework	PB 13.1, Q8
3.	Revision Test	
	Discuss homework	
	Revision Test	RT 13.1
4.	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.	Linear Inequalities	
	Illustrating inequalities - interactively	OS 13.1
	Exercises	PB 13.1, Q1
	Review answers	
	Finding inequalities - interactively	OS 11.2
	Exercises	PB 13.1, Q2
	Review answers	
	Exercises - solving inequalities - interactively	PB 13.1, parts of Q3
	Exercises	PB 13.1, Q4
	Review answers	
	Set homework	PB 13.1, Q7 and Q11
2.	Graphs of Quadratic Functions	
	Discuss homework	
	Review straight lines - interactively	PB 13.2, Q1
	Exercises	PB 13.2, Q3
	Review answers	
	Drawing quadratics	OS 13.3
	Exercises	PB 13.2, Q7
	Review answers	
	Mental Test	M 13.2
	Review answers	
	Set homework	PB 13.2, Q8 and Q11
3.	Graphs of Cubic and Reciprocal Functions	
	Discuss homework	
	Drawing cubic functions	OS 13.4
	Exercises	PB 13.3, Q2
	Review answers	
	Drawing reciprocal functions	OS 13.5
	Exercises	PB 13.3, Q6
	Review answers	
	Activity	Activity 13.1
	Set homework	Complete Activity 13.1 or PB 13.3, Q8

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<i>Lesson No.</i>	<i>Suggested Plan</i>	<i>References</i>
4.	Solving Non-Linear Equations	
	Discuss homework	
	Introduction	OS 13.6
	Exercises	PB 13.4, Q2
	Review answers	
	Exercises	PB 13.4, Q11
	Review answers	
	Set homework	PB 13.4, Q12
5.	Perpendicular Lines	
	Discuss homework	
	Introduction	OS 13.10
	Exercises	PB 13.6, Q1
	Review answers	
	Exercises - interactively	PB 13.6, Q2
	Exercises	PB 13.6, Q3
	Review answers	
	Set homework	PB 13.6, Q6 and Q7
6.	Revision Test	
	Discuss homework	
	Revision Test	RT 13.2
7.	Recap	
	Give back marked tests	
	Go over test questions interactively	
	Revise topics	

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1. Linear Inequalities

Illustrating inequalities - interactively	OS 13.1
Exercises	PB 13.1, Q1
Review answers	
Finding inequalities - interactively	OS 13.2
Exercises	PB 13.1, Q2
Review answers	
Exercises - solving inequalities - interactively	PB 13.1, parts of Q3
Exercises	PB 13.1, Q4
Review answers	
Set homework	PB 13.1, Q7 and Q11

2. Graphs of Quadratic Functions

Discuss homework	
Review straight lines - interactively	PB 13.2, Q1
Exercises	PB 13.2, Q3
Review answers	
Drawing quadratics	OS 13.3
Exercises	PB 13.2, Q7
Review answers	
Mental Test	M 13.3
Review answers	
Set homework	PB 13.2, Q8 and Q11

3. Graphs of Cubic and Reciprocal Functions

Discuss homework	
Drawing cubic functions	OS 13.4
Exercises	PB 13.3, Q2
Review answers	
Drawing reciprocal functions	OS 13.5
Exercises	PB 13.3, Q6
Review answers	
Activity	Activity 13.1 or Activity 13.3
Set homework	Complete Activity 13.1 or Activity 13.3

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<i>Lesson No.</i>	<i>Suggested Plan</i>	<i>References</i>
4.	Solving Non-Linear Equations	
	Discuss homework	
	Introduction	OS 13.6
	Exercises	PB 13.4, Q2
	Review answers	
	Interactive methods	OS 13.7
	Exercises	PB 13.4, Q4
	Review answers	
	Set homework	PB 13.4, Q11 and Q12
5.	Quadratic Inequalities	
	Discuss homework	
	Introduction	OS 13.8 / 13.9
	Exercises	PB 13.5, Q1
	Review answers	
	Exercises	PB 13.5, Q5
	Review answers	
	Set homework	PB 13.5, Q8 and Q11
6.	Perpendicular Lines	
	Discuss homework	
	Introduction	OS 13.10
	Exercises	PB 13.6, Q1
	Review answers	
	Exercises - interactively	PB 13.6, Q2
	Exercises	PB 13.6, Q3
	Review answers	
	Set homework	PB 13.6, Q6 and Q7
7.	Revision Test	
	Discuss homework	
	Revision Test	RT 13.3
8.	Recap	
	Give back marked tests	
	Go over test questions interactively	
	Revise topics	