

UNIT 16 *Algebra: Linear Equations* 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. | Basic Algebra 1 | |
| | Using codewheels | OS 16.1 |
| | Evaluating expressions – worked example | PB 16.1 |
| | Exercises | PB 16.1, Q4 |
| | Review answers | |
| | Set homework | Activity 16.1 |
| 2. | Basic Algebra 2 | |
| | Discuss homework | |
| | Evaluating expressions | PB 16.1, Q5 |
| | Review answers | |
| | Simplifying expressions – interactive | OS 16.2 |
| | Set homework | PB 16.1, Q6 |
| 3. | Basic Algebra 3 | |
| | Discuss homework | |
| | Exercises | PB 16.1, Q9 |
| | Review answers | |
| | Formulae | OS 16.3 |
| | Set homework | Complete PB 16.1, Q9 or PB 16.1, Q10 |
| 4. | Function Machines | |
| | Introduction – interactive | OS 16.4, Q1 |
| | Exercises | PB 16.2, Q1 |
| | Review answers | |
| | Reverse problems | OS 16.4, Q2 |
| | Exercises | PB 16.2, Q3 |
| | Review answers | |
| | Set homework | PB 16.2, Q2 |
| 5. | Balancing Equations | |
| | Discuss homework | |
| | Introduction – interactive | OS 16.5 |
| | Solving equations – introduction | OS 16.6 |
| | Exercises – interactive | PB 16.3, Q1 |
| | Set homework | Complete PB 16.3, Q1 |

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|-------------------|--|--------------------------------------|
| 6. | Solving Equations Review homework Think of a number Exercises Review answers Mental Test Set homework | OS 16.8 PB 16.3, Q5 M 16.1 |
| 7. | Revision Test Discuss homework Revision Test | R 16.1 |
| 8. | Recap Give back marked tests Go over test questions interactively Revise topics | |

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|-------------------|---|----------------------|
| 1. | Basic Algebra 1 | |
| | Using codewheels | OS 16.1 |
| | Evaluating expressions – worked example | PB 16.1 |
| | Exercises | PB 16.1, Q4 |
| | Review answers | |
| | Exercises | PB 16.1, Q5 |
| | Review answers | |
| | Set homework | PB 16.1, Q6 |
| 2. | Basic Algebra 2 | |
| | Discuss homework | |
| | Simplifying expressions – interactive | OS 16.2 |
| | Exercises | PB 16.1, Q9 |
| | Review answers | |
| | Formulae | OS 16.3 |
| | Set homework | PB 16.1, Q10 |
| 3. | Function Machines | |
| | Introduction – interactive | OS 16.4, Q1 |
| | Exercises | PB 16.2, Q2 |
| | Review answers | |
| | Reverse problems | OS 16.4, Q2 |
| | Exercises | PB 16.2, Q3 |
| | Review answers | |
| | Set homework | PB 16.2, Q1 and Q2 |
| 4. | Balancing Equations | |
| | Discuss homework | |
| | Introduction – interactive | OS 16.5 |
| | Solving equations | OS 16.6 |
| | Exercises – interactive | PB 16.3, Q1 |
| | Set homework | Complete PB 16.3, Q1 |
| 5. | Solving Equations 1 | |
| | Discuss homework | |
| | Introduction | OS 16.6 |
| | Exercises – interactive | PB 16.3, Q4 and Q5 |
| | Think of a number | OS 16.8 |
| | Exercises | PB 16.3, Q7 |
| | Review answers | |
| | Set homework | PB 16.3, Q4 and Q6 |

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|-------------------|--|--|
| 6. | Solving Equations 2 Discuss homework More complex equations Exercises – interactive Activity Mental Test Review answers Set homework | OS 16.7 PB 16.3, Q2 Activity 16.3 M 16.2 PB 16.3, Q8 |
| 7. | Revision Test Discuss homework Revision Test | R 16.2 |
| 8. | 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. | Basic Algebra 1 | |
| | Using codewheels | OS 16.1 |
| | Evaluating expressions – worked example | PB 16.1 |
| | Exercises | PB 16.1, Q4 |
| | Review answers | |
| | Exercises | PB 16.1, Q5 |
| | Review answers | |
| | Set homework | PB 16.1, Q6 |
| 2. | Basic Algebra 2 | |
| | Discuss homework | |
| | Simplifying expressions – interactive | OS 16.2 |
| | Exercises | PB 16.1, Q9 |
| | Review answers | |
| | Formulae | OS 16.3 |
| | Set homework | PB 16.1, Q10 |
| 3. | Function Machines | |
| | Introduction – interactive | OS 16.4, Q1 |
| | Exercises | PB 16.2, Q1 |
| | Review answers | |
| | Reverse problems | OS 16.4, Q2 |
| | Exercises | PB 16.2, Q3 |
| | Review answers | |
| | Set homework | PB 16.2, Q1 and Q2 |
| 4. | Balancing Equations | |
| | Discuss homework | |
| | Introduction – interactive | OS 16.5 |
| | Solving equations | OS 16.6 |
| | Exercises – interactive | PB 16.3, Q1 |
| | Set homework | Complete PB 16.3, Q1 |
| 5. | Solving Equations 1 | |
| | Discuss homework | |
| | Introduction | OS 16.6 |
| | Exercises – interactive | PB 16.3, Q4 and Q5 |
| | Think of a number | OS 16.8 |
| | Exercises | PB 16.3, Q7 |
| | Review answers | |
| | Set homework | PB 16.3, Q4 and Q6 |

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|-------------------|--|--|
| 6. | Solving Equations 2 Discuss homework More complex equations Exercises – interactive Activity Mental Test Review answers Set homework | OS 16.7 PB 16.3, Q2 Activity 16.3 M 16.3 PB 16.3, Q8 |
| 7. | Revision Test Discuss homework Revision Test | R 16.3 |
| 8. | Recap Give back marked tests Go over test questions interactively Revise topics | |