

UNIT 2 *Formulae*

## Lesson Plans

**St**

<i>Lesson No.</i>		<i>References</i>
<b>1</b>	<b>Using Formulae</b>	
	Mental Test	
	Review of simple formulae	T2.1
	Class activity using simple formulae	A2.4
	Exercises	T2.1
	Homework	P 2.1 (Q.1, 2 and 3)
<b>2</b>	<b>Constructing Formulae</b>	
	Review homework	P2.1
	Constructing formulae	T2.2
	Exercises	T2.2
	Activity to introduce general case	A2.1 or A2.2
	Homework	P 2.2 (Q.2, 5 and 6)
<b>3</b>	<b>Negative Numbers</b>	
	Review homework	P 2.2
	Revise basic rules using negative numbers	T2.3
	Whole class activity with temperature differences across the world	OS 2.1
	Exercises	T2.3
	Homework	P 2.3 (Q.1, 2 and 3)
<b>4.</b>	<b>Substitution into Formulae</b>	
	Review homework	
	Whole class activity – substitution in formulae, e.g. temperature	T2.4 (Ex.1)
	Exercises	T2.4
	Introduce homework	OS 2.2
	Homework	P 2.4 (Q.1, 3 and 8)
<b>5.</b>	<b>Changing the Subject</b>	
	Review homework	
	Class example	T2.6
	Exercises	T2.6
	Activity – physical fitness (experimental data needed)	A2.3
	Homework	P 2.6 (Q.4, 6 and 8)

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## Lesson Plans

A

<i>Lesson No.</i>		<i>References</i>
<b>1</b>	<b>Constructing Formulae</b>	
	Review homework	P2.1
	Constructing formulae	T2.2
	Exercises	T2.2
	Activity to introduce general case	A2.1 or A2.2
	Homework	P 2.2 (Q.2, 5 and 6)
<b>2</b>	<b>Substitution into Formulae</b>	
	Review homework	
	Whole class activity – substitution in formulae, e.g. temperature	T2.4 (Ex.1)
	Exercises	T2.4
	Introduce homework – kinematics	OS 2.2
	Homework	P 2.4 (Q.1, 3 and 8)
<b>3</b>	<b>Complex Formulae</b>	
	Review homework	
	Activity to introduce more complex formulae	A2.5 or 2.7
	Exercises	T2.5
	Exam type questions	T2.5 (Ex.6 and 8)
	Homework	P 2.5 (Q.3, 4 and 6)
<b>4</b>	<b>Changing the Subject</b>	
	Review homework	
	Class example	T2.6
	Exercises	T2.6
	Activity – physical fitness (experimental data needed)	A2.3
	Homework	P 2.6 (Q.4, 6 and 8)
<b>5</b>	<b>More Complex Problems</b>	
	Review homework	
	Class activity	T2.7
	Exercises	T2.7
	Exam type questions	T2.7 (Q.8 and 9)
	Homework	P 2.7 (Q.2, 6 and 7)

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**UNIT 2** *Formulae***Lesson Plans****A**

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*Lesson No.**References***6 Expansion of Brackets**

Straightforward whole class examples

T2.8

Exercises

T2.8

Introduction to homework

T2.8 (Ex.8)

Homework

P 2.8

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**7 Factorisation**

Straightforward whole class example

T2.9

Exercises

T2.9

Exam type questions

T2.9 (Ex.5 and 7)

Homework

P 2.9

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## Lesson Plans

## E

<i>Lesson No.</i>		<i>References</i>
<b>1</b>	<b>Substitution</b>	
	Revise construction of formulae	T2.2
	Activity to introduce general case	A2.1 or A2.2
	Exercises	T2.4
	Introduce homework – kinematics	OS2.2
	Homework	P 2.4 (Q.1, 3 and 8)
<b>2</b>	<b>More Complex Formulae</b>	
	Review homework	
	Activity to introduce more complex formulae	A2.5 or 2.7
	Exercises	T2.5
	Exam type questions	T2.5 (Ex.6 and 8)
	Homework	P 2.5 (Q.3, 4 and 6)
<b>3</b>	<b>Changing the Subject</b>	
	Revise homework	
	Class examples	T2.6
	Exercises	T2.6
	More complex problems	A2.6
	Exercises	T2.7
	Homework	P 2.6 and 2.7
<b>4</b>	<b>Expansion of Brackets</b>	
	Straightforward whole class examples	T2.8
	Exercises	T2.8
	Introduction to homework	T2.8 (Ex.8)
	Homework	P 2.8
<b>5</b>	<b>Factorisation</b>	
	Straightforward whole class example	T2.9
	Exercises	T2.9
	Exam type questions	T2.9 (Ex.5 and 7)
	Homework	P 2.9

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## Lesson Plans

**E***Lesson No.**References***6 Algebraic Manipulation**

Revise homework

Class example

Exercises

Activity to clarify ideas

Homework

T2.10

T2.10

A2.12

P 2.10 (Q.3 and 5)

**7 Algebraic Fractions**

Revise homework

Class example

Exercises

Introduce homework

Homework

T2.11

T2.11

P 2.11 (Q3(a) and (b))

P 2.11 (Q1, 3 and 4)