

UNIT 7 *Mensuration*

## Lesson Plans

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<i>Lesson No.</i>		<i>References</i>
<b>1. Units and Measuring</b>	Introduction	T7.1
	Number Scales	OS7.1
	Exercises	T7.1
	Homework	A7.1 and P7.1 (Q5)
<b>2. Estimating Areas</b>	Introduction	OS7.2
	Worked Example 3	T7.2
	Exercises	T7.2
	Homework	P7.2 (Q3)
<b>3. Nets</b>	Introduction – practical activity	A7.5
	Exercises	T7.3 (Q2)
	Constructing Nets, e.g. Worked Examples 1 and 2	T7.4
	Exercises	T7.4
	Homework	P7.4 (Q2 and 3)
<b>4. Conversion of Units</b>	Introduction – Imperial Units	OS7.3
	– Conversion Facts	OS7.4
	Worked Examples	T7.5
	Exercises	T7.5
	Homework	P7.5 (Q10 and 11)
<b>5. Squares, Rectangles and Triangles</b>	Introduction	OS7.5 and 7.6
	Exercises	T7.6
	Homework	P 7.6 (Q14 and 15)
<b>6. Area and Circumference of Circles</b>	Introduction, e.g. Worked Examples	T7.7
	Exercises	T7.7
	Mental Test	M7.1
	Homework	P7.7 (Q10, 11 and 12)

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<i>Lesson No.</i>		<i>References</i>
<b>7. Volumes</b>	Introduction	OS7.10
	Worked Examples	T7.8
	Exercises	T7.8
	Homework	P7.8 (Q5, 8 and 9)
<b>8. 3D Representation</b>	Mental Test	M7.2
	Plans and Elevations	T7.9
	Exercises	T7.9
	Homework	P7.9 (Q4)
<b>9. Isometric Drawing</b>	Introduction	T7.10
	Exercises	T7.10 (Q7)
	Discrete and Continuous Measures – review	T7.11
	Exercises	T7.11
	Homework	P7.10
<b>10. Areas</b>	Introduction	OS7.11
	Worked Examples	T7.12
	Activity	A7.10 or OS7.9
	Homework	P 7.12
<b>11. Surface Area</b>	Introduction	T7.13
	Exercises	T7.13
	Homework	P7.13
<b>12. Mass, Volume and Density</b>	Introduction	T7.14
	Exercises	T7.14
	Homework	P7.14 (Q10)

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<i>Lesson No.</i>	<i>References</i>
<b>1. Nets</b>	
Introduction – practical activity	A7.5
Exercises	T7.3 (Q2)
Constructing Nets, e.g. Worked Examples 1 and 2	T7.4
Exercises	T7.4
Homework	P7.4 (Q2 and 3)
<b>2. Conversion of Units</b>	
Introduction – Imperial Units	OS7.3
– Conversion Facts	OS7.4
Worked Examples	T7.5
Exercises	T7.5
Homework	P 7.5 (Q10 and 11)
<b>3. Squares, Rectangles and Triangles</b>	
Introduction	OS7.5 and 7.6
Exercises	T7.6
Homework	P 7.6 (Q14 and 15)
<b>4. Area and Circumference of Circles</b>	
Introduction, e.g. Worked Examples	T7.7
Exercises	T7.7
Mental Test	M7.1
Homework	P7.7 (Q10, 11 and 12)
<b>5. Volumes</b>	
Introduction	OS7.10
Worked Examples	T7.8
Exercises	T7.8
Homework	P7.8 (Q5, 8 and 9)

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<i>Lesson No.</i>		<i>References</i>
<b>6.</b>	<b>3D Representation</b>	
	Mental Test	M7.2
	Plans and Elevations	T7.9
	Exercises	T7.9
	Homework	P7.9 (Q4)
<b>7.</b>	<b>Isometric Drawing</b>	
	Introduction	T7.10
	Exercises	T7.10 (Q7)
	Discrete and Continuous Measures – review	T7.11
	Exercises	T7.11
	Homework	P7.10
<b>8.</b>	<b>Areas</b>	
	Introduction	OS7.11
	Worked Examples	T7.12
	Activity	A7.10 or OS7.9
	Homework	P 7.12
<b>9.</b>	<b>Surface Area</b>	
	Introduction	T7.13
	Exercises	T7.13
	Homework	P7.13
<b>10.</b>	<b>Mass, Volume and Density</b>	
	Introduction	T7.14
	Exercises	T7.14
	Homework	P7.14 (Q10)
<b>11.</b>	<b>More Areas and Volumes</b>	
	Area of triangle	T7.15
	Volume of Pyramid, Cone and Sphere	OS7.12
	Arcs and Sectors	T7.15
	Exercises	T7.15
	Homework	P7.15 (Q23, 24 and 27)
<b>12.</b>	<b>Dimensions</b>	
	Basic properties and Worked Examples	T7.16
	Exercises	T7.16 (Q11-14)
	Homework	P7.16 (Q3 and 4)

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## E

*Lesson No.**References***1. Introduction**

Mental Test	M7.1 or 7.2
Revision of earlier work	OS7.3, 7.4, 7.5 and 7.6
Discrete and Continuous Measures	T7.11
Homework – revision	

**2. Areas**

Introduction	OS7.11
Worked Examples	T7.12
Activity	A7.10 or OS7.9
Homework	P 7.12

**3. Surface Area**

Introduction	T7.13
Exercises	T7.13
Homework	P7.13

**4. Mass, Volume and Density**

Introduction	T7.14
Exercises	T7.14
Homework	P7.14 (Q10)

**5. More Areas and Volumes**

Area of triangle	T7.15
Volume of Pyramid, Cone and Sphere	OS7.12
Exercises	T7.15
Homework	P7.15 (Q25 and 27)

**6. Arcs and Sectors**

Introduction	T7.15
Exercises	T7.15
Activity	A7.11
Homework	P7.15 (Q23, 24 and 26)

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**7. Mass, Volume and Density**

Introduction

T7.14

Exercises

T7.14

Homework

P7.14 (Q10)

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**8. Areas of Triangles**

Introduction to Heron's formula

T7.17

Exercises

T7.17

Homework

P7.17

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