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**UNIT 14** *Loci and Transformations*    Lesson Plans

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<i>Lesson No.</i>		<i>References</i>
<b>1</b>	<b>Symmetry</b>	
	Revision: lines of symmetry	OS 14.1
	rotational symmetry	OS 14.2
	Exercises	T 14.1
	Homework	P 14.1
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<b>2</b>	<b>Scale Drawings</b>	
	Introduction	OS 14.3
	Examples	T 14.2
	Practical Work - scale drawings of classroom, school, car park, etc.	
	Exercises	T 14.2
	Homework	P 14.2 (Q. 5, 6)
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<b>3</b>	<b>Constructions</b>	
	Constructing triangles	T 14.3
	Exercises	T 14.3
	Other constructions	A 14.1
	Exercises	T 14.3
	Homework	P 14.3
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<b>4</b>	<b>Enlargements</b>	
	Introduction	OS 14.4
	Exercises	T 14.4
	Finding the centre of enlargement	OS 14.5
	Exercises	T 14.4
	Homework	P 14.4 (Q. 4–7)
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<b>5</b>	<b>Reflections</b>	
	Introduction – simple examples	OS 14.6
	Exercises	T 14.5
	Activity	A 14.2
	Exercises	T 14.5
	Homework	P 14.5 (Q. 4)

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<b>6</b>	<b>Loci</b>	
	Introduction – simple examples	OS 14.7, 14.8
	Examples	T 14.6
	Summary	OS 14.9
	Exercises	T 14.6
	Homework	P 14.6 (Q. 5, 7, 9)
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<b>7</b>	<b>Enlargements which Reduce</b>	
	Illustrative examples	OS 14.10, 14.11
	Examples	T 14.7
	Mental Test	M 14.1
	Exercises	T 14.7
	Homework	P 14.7 (Q. 6)
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<b>8</b>	<b>Further Reflections</b>	
	Illustrations	OS 14.12
	Examples	T 14.8
	Activity	A 14.3
	Exercises	T 14.8
	Homework	P 14.8 (Q. 3, 5)
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<b>9</b>	<b>Rotations</b>	
	Illustrations	OS 14.13
	Examples	T 14.9
	Exercises	T 14.9
	Mental Test	M 14.2
	Homework	P 14.9 (Q. 4, 5, 7)
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<b>10</b>	<b>Translations</b>	
	Illustrations	OS 14.14
	Examples	T 14.10
	Exercises	T 14.10
	Activity	A 14.4
	Homework	P 14.10 (Q. 2)

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<i>Lesson No.</i>		<i>References</i>
<b>1</b>	<b>Scale Drawings</b>	
	Introduction	OS 14.3
	Examples	T 14.2
	Practical Work - scale drawings of classroom, school, car park, etc.	
	Exercises	T 14.2
	Homework	P 14.2 (Q. 5, 6)
<b>2</b>	<b>Constructions</b>	
	Constructing triangles	T 14.3
	Exercises	T 14.3
	Other constructions	A 14.1
	Exercises	T 14.3
	Homework	P 14.3
<b>3</b>	<b>Enlargements</b>	
	Introduction	OS 14.4
	Exercises	T 14.4
	Finding the centre of enlargement	OS 14.5
	Exercises	T 14.4
	Homework	P 14.4 (Q. 4–7)
<b>4</b>	<b>Reflections</b>	
	Introduction – simple examples	OS 14.6
	Exercises	T 14.5
	Activity	A 14.2
	Exercises	T 14.5
	Homework	P 14.5 (Q. 4)
<b>5</b>	<b>Loci</b>	
	Introduction – simple examples	OS 14.7, 14.8
	Examples	T 14.6
	Summary	OS 14.9
	Exercises	T 14.6
	Homework	P 14.6 (Q. 5, 7, 9)

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**6 Enlargements which Reduce**

Illustrative examples	OS 14.10, 14.11
Examples	T 14.7
Mental Test	M 14.1
Exercises	T 14.7
Homework	P 14.7 (Q. 6)

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**7 Further Reflections**

Illustrations	OS 14.12
Examples	T 14.8
Activity	A 14.3
Exercises	T 14.8
Homework	P 14.8 (Q. 3, 5)

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**8 Rotations**

Illustrations	OS 14.13
Examples	T 14.9
Exercises	T 14.9
Mental Test	M 14.2
Homework	P 14.9 (Q. 4, 5, 7)

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**9 Translations**

Illustrations	OS 14.14
Examples	T 14.10
Exercises	T 14.10
Activity	A 14.4
Homework	P 14.10 (Q. 2)

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**10 Combined Transformations**

Introduction	OS 14.15
Exercises	T 14.11
Mental Test	M 14.3
Homework	P 14.1 (Q. 3, 4, 5)

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**UNIT 14** *Loci and Transformations*    **Lesson Plans****A****11**    **Congruence**

Revision of topic	OS 14.16
Examples	T 14.12
Introduce similarity	OS 14.17
Homework	P 14.12 (Q. 1, 4)

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**12**    **Similarity**

Examples	T 14.13
Mental Test	M 14.4
Exercises	T 14.13
Homework	P 14.13 (Q. 5, 6, 9)

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<i>Lesson No.</i>		<i>References</i>
<b>1</b>	<b>Loci</b>	
	Introduction – simple examples	OS 14.7, 14.8
	Examples	T 14.6
	Summary	OS 14.9
	Exercises	T 14.6
	Homework	P 14.6 (Q. 5, 7, 9)
<b>2</b>	<b>Enlargements which Reduce</b>	
	Illustrative examples	OS 14.10, 14.11
	Examples	T 14.7
	Mental Test	M 14.1
	Exercises	T 14.7
	Homework	P 14.7 (Q. 6)
<b>3</b>	<b>Further Reflections</b>	
	Illustrations	OS 14.12
	Examples	T 14.8
	Activity	A 14.3
	Exercises	T 14.8
	Homework	P 14.8 (Q. 3, 5)
<b>4</b>	<b>Rotations</b>	
	Illustrations	OS 14.13
	Examples	T 14.9
	Exercises	T 14.9
	Mental Test	M 14.2
	Homework	P 14.9 (Q. 4, 5, 7)
<b>5</b>	<b>Translations</b>	
	Illustrations	OS 14.14
	Examples	T 14.10
	Exercises	T 14.10
	Activity	A 14.4
	Homework	P 14.10 (Q. 2)

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**UNIT 14** *Loci and Transformations*    **Lesson Plans**    **E**

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**6**    **Combined Transformations**

Introduction	OS 14.15
Exercises	T 14.11
Mental Test	M 14.3
Homework	P 14.11 (Q. 3, 4, 5)

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**7**    **Congruence**

Revision of topic	OS 14.16
Examples	T 14.12
Introduce similarity	OS 14.17
Homework	P 14.12 (Q. 1, 4)

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**8**    **Similarity**

Examples	T 14.13
Mental Test	M 14.4
Exercises	T 14.13
Homework	P 14.13 (Q. 5, 6, 9)

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**9**    **Negative Scale Factors**

Introduction	OS 14.18, 14.9
Examples	T 14.14
Exercises	T 14.14
Homework	P 14.14 (Q. 4, 5)

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