



Government of Meghalaya  
Education Department

# ASSESSMENT BLUEPRINT

**CLASSES 9 and 10**

**2024**

**DERT**  
Directorate of Educational  
Research & Training



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## Introduction

The aim of Assessment according to the National Education Policy (NEP) 2020 is to promote learning and development for all students. Assessment will shift from one which is merely summative and testing rote memorization skills, to a more regular and formative and is more competency-based. With the focus on Learning Outcomes (LOs) in the teaching-learning process, effort has been made to also map the types of questions to learning outcomes. This will help in assessing the performance of each student in the LO assessed and in the tracking of students' performance based on LOs.

The Directorate of Educational Research and Training (DERT) in collaboration with Reach to Teach Foundation has recently brought out the Learning Outcomes Mapped Syllabus from Class 1 - 10 in 3(three) core subjects i.e. English, Mathematics and Science. Thus, the present document contains the Assessment Blueprint for English, Mathematics and Science for Classes 9 and 10.

These blueprints are a sample only and may change based on the number of chapters and number of questions to be included. This flexibility will allow the setting of question papers in concurrence with the syllabus covered and provide the choice of increasing weightage for chapters /concepts/LOs where required.

For any feedback, please mail to us at [dert.megh@gmail.com](mailto:dert.megh@gmail.com).

# ENGLISH

## CLASS 9

### A. Half Yearly and Annual Examination

#### Section-wise Marks Distribution and Learning Outcomes for External Assessment

No.	Section Name	Marks Allotment	Suggested Learning Outcomes
1.	<b>Reading Skills</b>		
	- Conceptual Passage	10 marks	9.E.LO7 9.E.LO8 9.E.LO28
	- Analytical Passage	10 marks	9.E.LO7 9.E.LO8 9.E.LO14
2.	<b>Writing &amp; Grammar</b>		
	- Formal letter based on a given situation in about 150-200 words/Article Writing: Descriptive or Narrative in about 15-200 words/ Story Writing: Descriptive or Narrative in about 150-200 words	10 marks	9.E.LO10 9.E.LO17 9.E.LO24
	- Writing an analytical paragraph on the basis of a given map/chart/report/line graph in about 150-200 words	10 marks	9.E.LO9 9.E.LO15 9.E.LO16 9.E.LO17
	- Grammar: Complete any ten of twelve of the following tasks as directed	10 marks	9.E.LO17 9.E.LO18
3.	<b>Literature (Textbook and Supplementary reader)</b>		
	- Read extracts given below and answer the following questions (both prose and poetry)	4 marks	9.E.LO7 9.E.LO8 9.E.LO22 9.E.LO23 9.E.LO30
	- Multiple choice questions	4 marks	9.E.LO19 9.E.LO22 9.E.LO23 9.E.LO30
	- Answer the following questions in one or two sentences (Short Answer type question)	6 marks	9.E.LO22 9.E.LO23 9.E.LO30
	- Answer any two of the following questions in about 100-120 words (from textbook)	8 marks	9.E.LO21 9.E.LO22 9.E.LO30
	- Answer any two of the following questions in about 100-120 words (from supplementary reader)	8 marks	9.E.LO21 9.E.LO22 9.E.LO30
<b>Total</b>		<b>80 marks</b>	

### Section-wise Marks Distribution and Learning Outcomes for Internal Assessment

SL. No.	Type of Assessment	Marks Allotment	Suggested Learning Outcomes
1.	Reading	3 marks	9.E.LO6   9.E.LO7   9.E.LO8  9.E.LO21
2.	Projects	4 marks	9.E.LO11 9.E.LO13 9.E.LO15 9.E.LO22  9.E.LO23  9.E.LO24 9.E.LO30
3.	Assignments	4 marks	9.E.LO9 9.E.LO10 9.E.LO11 9.E.LO16 9.E.LO17 9.E.LO22 9.E.LO23 9.E.LO24
4.	Oral questions	4 marks	9.E.LO1  9.E.LO3 9.E.LO4 9.E.LO8  9.E.LO14 9.E.LO21  9.E.LO22  9.E.LO23
5.	Group Discussion & Presentation	5 marks	9.E.LO2 9.E.LO5 9.E.LO13 9.E.LO15  9.E.LO16  9.E.LO21 9.E.LO22 9.E.LO25   9.E.LO29 9.E.LO30
	<b>Total</b>	<b>20</b>	

## CLASS 10

### A. Half Yearly and Annual Examination

#### Section-wise Marks Distribution and Learning Outcomes for External Assessment

No.	Section Name	Marks Allotment	Suggested Learning Outcomes
1	Reading Skills		
	- Conceptual Passage	10 marks	10.E.LO7   10.E.LO8   10.E.LO36
	- Analytical Passage	10 marks	10.E.LO7   10.E.LO8   10.E.LO15   10.E.LO33   10.E.LO36
2	Writing & Grammar		
	- Formal letter based on a given situation in about 150-200 words/Article Writing: Descriptive or Narrative in about 15-200 words/ Story Writing: Descriptive or Narrative in about 150-200 words	10 marks	10.E.LO11   10.E.LO13   10.E.LO25   10.E.LO25   10.E.LO31
	- Writing an analytical paragraph on the basis of a given map/chart/report/line graph in about 150-200 words	10 marks	10.E.LO11   10.E.LO13   10.E.LO12
	- Grammar: Complete any ten of twelve of the following tasks as directed	10 marks	10.E.LO22   10.E.LO23
3	Literature (Textbook and Supplementary reader)		
	- Read and extracts given below and answer the following questions (both prose and poetry)	4 marks	10.E.LO24   10.E.LO26   10.E.LO27   10.E.LO28
	- Multiple choice questions	4 marks	10.E.LO24   10.E.LO26   10.E.LO27   10.E.LO28
	- Answer the following questions in one or two sentences (Short Answer type question)	6 marks	10.E.LO27   10.E.LO33
	- Answer any two of the following questions in about 100-120 words (from textbook)	8 marks	10.E.LO27   10.E.LO33
	- Answer any two of the following questions in about 100-120 words (from supplementary reader)	8 marks	10.E.LO27   10.E.LO33
<b>Total</b>		<b>80 marks</b>	

### Section-wise Marks Distribution and Learning Outcomes for Internal Assessment

SL. No.	Type of Assessment	Marks Allotment	Suggested Learning Outcomes
1.	Reading	3 marks	10.E.LO7   10.E.LO8
2.	Projects	4 marks	10.E.LO10 10.E.LO11 10.E.LO12 10.E.LO13 10.E.LO15 10.E.LO16 10.E.LO17   10.E.LO18 10.E.LO19 10.E.LO21 10.E.LO27 10.E.LO30 10.E.LO31 10.E.LO33
3.	Assignments	4 marks	10.E.LO9 10.E.LO11 10.E.LO12 10.E.LO13 10.E.LO14 10.E.LO15 10.E.LO16   10.E.LO18 10.E.LO19 10.E.LO23 10.E.LO27 10.E.LO28 10.E.LO30 10.E.LO33
4.	Oral questions	4 marks	10.E.LO1 10.E.LO5 10.E.LO6 10.E.LO7 10.E.LO9 10.E.LO15 10.E.LO17   10.E.LO18 10.E.LO24 10.E.LO25 10.E.LO26 10.E.LO27
5.	Group Discussion & Presentation	5 marks	10.E.LO2 10.E.LO3 10.E.LO4 10.E.LO5 10.E.LO6 10.E.LO9 10.E.LO10   10.E.LO14 10.E.LO15 10.E.LO17 10.E.LO18 10.E.LO21 10.E.LO22   10.E.LO24 10.E.LO25 10.E.LO26 10.E.LO30 10.E.LO32 10.E.LO33
	<b>Total</b>	<b>20</b>	



# MATHEMATICS

## CLASS 9

### A. Structure of Question Paper (For both Half Yearly and Annual Examinations)

Type of Questions	No. of questions	Marks per question	Total marks
Very Short Answer (VSA)	8	1	8
Short Answer 1 (SA1)	7	2	14
Short Answer 2 (SA2)	8	3	24
Long Answer 1 (LA1)	4	4	16
Long Answer 2 (LA2)	3	6	18
Total			80
Internal Assessment			20
<b>Total</b>			<b>100</b>

**Section-wise Marks Distribution for Internal Assessment**

SL. No.	Type of Assessment	Marks Allotment
1.	Projects/Assignments	5 marks
2.	Group Discussion & Presentation	5 marks
3.	Oral questions/Quiz	10 marks
	<b>Total</b>	<b>20</b>

## B. Half Yearly Examination

### Chapter-wise marks distribution

Chapter No.	Chapter Name	Marks Allotment
Chapter 1	Number System	6
Chapter 2	Polynomials	13
Chapter 3	Coordinate Geometry	6
Chapter 5	Introduction to Euclid's Geometry	18
Chapter 6	Lines and Angles	13
Chapter 7	Triangles	17
Chapter 10	Heron's Formula	7
Total		80

### Learning Outcomes mapped with Types of Question

LO CODES   CHAPTERS	TYPES OF QUESTIONS PER LEARNING OUTCOMES (Half Yearly Examination)									
	VSA		SA 1		SA 2		LA 1		LA 2	
	No. of Questions	Marks	No. of Questions	Marks	No. of Questions	Marks	No. of Questions	Marks	No. of Questions	Marks
9.M.LO1   Chapter 1	1	1	1	2	1	3				
9.M.LO2   Chapter 2	1	1	1	2	2	6	1	4		
9.M.LO4   Chapter 5	1	1	2	4			1	4		
9.M.LO5   Chapter 5					1	3			1	6
9.M.LO6   Chapter 10	1	1							1	6
9.M.LO7   Chapter 7	1	1			1	3			1	6
7.M.LO14   Chapter 7			2	4	1	3				
9.M.LO8   Chapter 3	2	2					1	4		
7.M.LO11   Chapter 6	1	1			1	3	1	4		
7.M.LO12   Chapter 6			1	2	1	3				

## C. Annual Examination

### Chapter-wise marks distribution:

Chapter/Unit No.	Chapter/Unit Name	Marks Allotment
Chapter 1	Number System	5
Chapter 2	Polynomials	5
Chapter 3	Coordinate Geometry	4
Chapter 4	Linear Equation in two variables	10
Chapter 5	Introduction to Euclid's Geometry	1
Chapter 6	Lines and Angles	5
Chapter 7	Triangles	6
Chapter 8	Quadrilaterals	15
Chapter 9	Circles	9
Chapter 10	Heron's Formula	4
Chapter 11	Surface Area and Volume	9
Chapter 12	Statistics	7
Total		80

## Learning Outcomes mapped with Types of Question

LO CODES   CHAPTERS	TYPES OF QUESTIONS PER LEARNING OUTCOMES (Annual Examination)									
	VSA		SA 1		SA 2		LA 1		LA 2	
	No. of Questions	Marks	No. of Questions	Marks	No. of Questions	Marks	No. of Questions	Marks	No. of Questions	Marks
9.M.LO1   Chapter 1	1	1					1	4		
9.M.LO2   Chapter 2			1	2	1	3				
9.M.LO3   Chapter 4	1	1	1	2	1	3	1	4		
9.M.LO4   Chapter 5	1	1								
9.M.LO5   Chapter 9			1	2	1	3	1	4		
9.M.LO6   Chapter 10	1	1			1	3				
9.M.LO7   Chapter 7			1	2						
7.M.LO14   Chapter 7	1	1			1	3				
9.M.LO8   Chapter 3	1	1			1	3				
9.M.LO12   Chapter 11	1	1	1	2					1	6
9.M.LO10   Chapter 12	1	1							1	6
7.M.LO11   Chapter 6			1	2	1	3				
7.M.LO12   Chapter 6										
8.M.LO12   Chapter 8			1	2	1	3	1	4	1	6

## CLASS 10

### A. Structure of Question Paper (For both Half Yearly Examination and Selection Test)

Type of Questions	No. of questions	Marks per question	Total marks
Very Short Answer (VSA)	8	1	8
Short Answer 1 (SA1)	7	2	14
Short Answer 2 (SA2)	8	3	24
Long Answer 1 (LA1)	4	4	16
Long Answer 2 (LA2)	3	6	18
Total			80
Internal Assessment			20
<b>Total</b>			<b>100</b>

### Section-wise Marks Distribution for Internal Assessment

SL. No.	Type of Assessment	Marks Allotment
1.	Projects/Assignments	5 marks
2.	Group Discussion & Presentation	5 marks
3.	Oral questions/Quiz	10 marks
	<b>Total</b>	<b>20</b>



## B. Half Yearly Examination

### Chapter-wise marks distribution

Chapter/Unit No.	Chapter/Unit Name	Marks Allotment
Chapter 1	Real Numbers	8
Chapter 2	Polynomials	9
Chapter 6	Triangles	15
Chapter 7	Coordinate Geometry	13
Chapter 8	Introduction to Trigonometry	7
Chapter 11	Areas related to Circles	13
Chapter 13	Statistics	6
Chapter 14	Probability	9
Total		80

### Learning Outcomes mapped with Types of Question

LO CODES   CHAPTERS	TYPES OF QUESTIONS PER LEARNING OUTCOMES (Half Yearly Examination)									
	VSA		SA 1		SA 2		LA 1		LA 2	
	No. of Questions	Marks	No. of Questions	Marks	No. of Questions	Marks	No. of Questions	Marks	No. of Questions	Marks
10.M.LO1   Chapter 1	1	1			1	3	1	4		
10.M.LO2   Chapter 2	1	1	1	2	2	6				
10.M.LO6   Chapter 6	1	1	1	2						
10.M.LO7   Chapter 6	1	1	1	2						
10.M.LO11.1   Chapter 6			1	2	1	3	1	4		
10.M.LO8   Chapter 7	1	1			2	6			1	6
10.M.LO9   Chapter 8	1	1	1	2			1	4		
10.M.LO13   Chapter 11					1	3	1	4	1	6
10.M.LO14   Chapter 13	1	1	1	2	1	3				
10.M.LO15   Chapter 14	1	1	1	2					1	6

## C. Selection Test

### Chapter-wise marks distribution

Chapter/Unit No.	Chapter/Unit Name	Marks Allotment
Chapter 1	Real Numbers	4
Chapter 2	Polynomials	3
Chapter 3	Pair of Linear Equations in two variables	6
Chapter 4	Quadratic Equation	7
Chapter 5	Arithmetic Progression	4
Chapter 6	Triangles	6
Chapter 7	Coordinate Geometry	6
Chapter 8	Introduction to Trigonometry	2
Chapter 9	Some Applications of Trigonometry	9
Chapter 10	Circles	10
Chapter 11	Areas related to Circles	3
Chapter 12	Surface Area and Volume	9
Chapter 13	Statistics	7
Chapter 14	Probability	4
Total		80

## Learning Outcomes mapped with Types of Question

LO CODES   CHAPTERS	TYPES OF QUESTIONS PER LEARNING OUTCOMES (Selection Test)									
	VSA		SA 1		SA 2		LA 1		LA 2	
	No. of Questions	Marks	No. of Questions	Marks	No. of Questions	Marks	No. of Questions	Marks	No. of Questions	Marks
10.M.LO1   Chapter 1	1	1			1	3				
10.M.LO2   Chapter 2					1	3				
10.M.LO3   Chapter 3									1	6
10.M.LO4   Chapter 4	1	1	1	2			1	4		
10.M.LO5   Chapter 5	1	1			1	3				
10.M.LO6   Chapter 6	1	1								
10.M.LO7   Chapter 6			1	2						
10.M.LO11.1   Chapter 6					1	3				
10.M.LO8   Chapter 7			1	2			1	4		
10.M.LO9   Chapter 8			1	2						
10.M.LO9   Chapter 9			1	2	1	3	1	4		
10.M.LO10   Chapter 10			1	2			1	4		
10.M.LO11.2   Chapter 10	1	1			1	3				
10.M.LO13   Chapter 11					1	3				
10.M.LO13   Chapter 12	1	1	1	2					1	6
10.M.LO14   Chapter 13	1	1							1	6
10.M.LO15   Chapter 14	1	1			1	3				

# SCIENCE

## CLASS 9

**A. Structure of Question Paper (for Half Yearly and Annual Examinations)**

Type of Questions	No. of questions	Marks per question	Total marks
Multiple Choice Question (MCQ)	10	1	10
Very Short Answer (VSA)	11	2	22
Short Answer type (SA)	11	3	33
Long Answer type (LA)	3	5	15
Total			80
Internal Assessment			20
<b>Total</b>			<b>100</b>

### Section-wise Marks Distribution for Internal Assessment

SL. No.	Type of Assessment	Marks Allotment
1.	Projects/Assignments/Model construct on scientific discoveries or investigation/Science Experiments	10 marks
2.	Group Discussion & Presentation	5 marks
3.	Oral questions/Quiz	5 marks
	<b>Total</b>	<b>20</b>

Note: To achieve the learning outcomes with regard to Science experiments, teachers can refer to the NCERT Science Lab Manual link: <https://ncert.nic.in/science-laboratory-manual.php>

## B. Half Yearly Examination

### Chapter-wise marks distribution

Chapter No.	Chapter Name	Marks Allotment
Chapter 1	Matter In Our Surroundings	17
Chapter 2	Is Matter Around Us Pure?	14
Chapter 5	Fundamental Unit of Life	17
Chapter 7	Motion	17
Chapter 8	Force and Laws of Motion	15
Total		80

### Learning Outcomes mapped with Types of Question

CHAPTERS	TYPES OF QUESTIONS PER LEARNING OUTCOMES							
	MCQ		VSA		SA		LA	
	No. of Questions	LO Code	No. of Questions	LO Code	No. of Questions	LO Code	No. of Questions	LO Code
Chapter 1	2	9.Sc.LO2 9.Sc.LO10	3	9.Sc.LO1 9.Sc.LO3 9.Sc.LO10	3	9.Sc.LO1 9.Sc.LO5 9.Sc.LO6		
Chapter 2	2	9.Sc.LO4 9.Sc.LO14	2	9.Sc.LO3 9.Sc.LO6	1	9.Sc.LO14	1	9.Sc.LO3 9.Sc.LO18
Chapter 5	2	9.Sc.LO1 9.Sc.LO12	2	9.Sc.LO5 9.Sc.LO12	2	9.Sc.LO5 9.Sc.LO7	1	9.Sc.LO15
Chapter 7	2	9.Sc.LO6 9.Sc.LO7	2	9.Sc.LO6 9.Sc.LO7	2	9.Sc.LO6 9.Sc.LO8	1	9.Sc.LO13
Chapter 8	2	9.Sc.LO8 9.Sc.LO9	2	9.Sc.LO5 9.Sc.LO8	3	9.Sc.LO5 9.Sc.LO12 9.Sc.LO14		

## C. Annual Examination

### Chapter-wise marks distribution

Chapter No.	Chapter Name	Marks Allotment
Chapter 1	Matter In Our Surroundings	4
Chapter 2	Is Matter Around Us Pure?	4
Chapter 3	Atoms And Molecules	9
Chapter 4	Structure Of The Atom	9
Chapter 5	Fundamental Unit of Life	4
Chapter 6	Tissues	10
Chapter 7	Motion	4
Chapter 8	Force and Laws of Motion	4
Chapter 9	Gravitation	9
Chapter 10	Work And Energy	9
Chapter 11	Sound	9
Chapter 12	Improvement In Food Resources	5
Total		80



## Learning Outcomes mapped with Types of Question

CHAPTERS	TYPES OF QUESTIONS PER LEARNING OUTCOMES							
	MCQ		VSA		SA		LA	
	No. of Questions	LO Code	No. of Questions	LO Code	No. of Questions	LO Code	No. of Questions	LO Code
Chapter 1			2	9.Sc.LO4 9.Sc.LO12				
Chapter 2			2	9.Sc.LO2 9.Sc.LO5				
Chapter 3	1	9.Sc.LO2	1	9.Sc.LO3	2	9.Sc.LO9 9.Sc.LO15		
Chapter 4	1	9.Sc.LO15			1	9.Sc.LO9	1	9.Sc.LO6 9.Sc.LO7
Chapter 5	1	9.Sc.LO3			1	9.Sc.LO4		
Chapter 6	1	9.Sc.LO2	2	9.Sc.LO3 9.Sc.LO4			1	9.Sc.LO5 9.Sc.LO7
Chapter 7			2	9.Sc.LO1 9.Sc.LO13				
Chapter 8	1	9.Sc.LO1			1	9.Sc.LO13		
Chapter 9	1	9.Sc.LO3			1	9.Sc.LO11	1	9.Sc.LO13
Chapter 10	1	9.Sc.LO6	1	9.Sc.LO12	2	9.Sc.LO13 9.Sc.LO14		
Chapter 11	1	9.Sc.LO8	1	9.Sc.LO7	2	9.Sc.LO4 9.Sc.LO5		
Chapter 12	2	9.Sc.LO19 9.Sc.LO19			1	9.Sc.LO12		

## CLASS 10

## A. Structure of Question Paper (for Half Yearly Examination and Selection Test)

Type of Questions	No. of questions	Marks per question	Total marks
Multiple Choice Question (MCQ)	10	1	10
Very Short Answer (VSA)	11	2	22
Short Answer type (SA)	11	3	33
Long Answer type (LA)	3	5	15
Total			80
Internal Assessment			20
Total			<b>100</b>

**Section-wise Marks Distribution for Internal Assessment**

SL. No.	Type of Assessment	Marks Allotment
1.	Projects/Assignments/Model construct on scientific discoveries or investigation/Science Experiments	10 marks
2.	Group Discussion & Presentation	5 marks
3.	Oral questions/Quiz	5 marks
	<b>Total</b>	<b>20</b>

Note: To achieve the learning outcomes with regard to Science experiments, teachers can refer to the NCERT Science Lab Manual link: <https://ncert.nic.in/science-laboratory-manual.php>

## B. Half Yearly Examination

### Chapter-wise marks distribution

Chapter No.	Chapter Name	Marks Allotment
Chapter 1	Chemical Reactions and Equations	14
Chapter 2	Acids, Bases and Salts	13
Chapter 5	Life Processes	13
Chapter 6	Control and Coordination	13
Chapter 9	Light – Reflection and Refraction	14
Chapter 10	The Human Eye and the Colourful World	13
Total		80

### Learning Outcomes mapped with Types of Question

CHAPTERS	TYPES OF QUESTIONS PER LEARNING OUTCOMES							
	MCQ		VSA		SA		LA	
	No. of Questions	LO Code	No. of Questions	LO Code	No. of Questions	LO Code	No. of Questions	LO Code
Chapter 1	2	10.Sc.LO1 10.Sc.LO9	3	10.Sc.LO5 10.Sc.LO9 10.Sc.LO10	2	10.Sc.LO7 10.Sc.LO8		
Chapter 2	2	10.Sc.LO2 10.Sc.LO4			2	10.Sc.LO5 10.Sc.LO9	1	10.Sc.LO5 10.Sc.LO9 10.Sc.LO12
Chapter 5	2	10.Sc.LO12 10.Sc.LO1			2	10.Sc.LO4 10.Sc.LO6	1	10.Sc.LO12
Chapter 6	1	10.Sc.LO4	3	10.Sc.LO4 10.Sc.LO5 10.Sc.LO6	2	10.Sc.LO5 10.Sc.LO14		
Chapter 9	1	10.Sc.LO8	1	10.Sc.LO8	2	10.Sc.LO12 10.Sc.LO13	1	10.Sc.LO6 10.Sc.LO7 10.Sc.LO8
Chapter 10	2	10.Sc.LO4 10.Sc.LO14	4	10.Sc.LO5 10.Sc.LO6	1	10.Sc.LO14 10.Sc.LO18		

## Selection Text

### Chapter-wise marks distribution

Chapter No.	Chapter Name	Marks Allotment
Chapter 1	Chemical Reactions and Equations	4
Chapter 2	Acids, Bases and Salts	5
Chapter 3	Metals and Non-metals	8
Chapter 4	Carbon and its Compounds	8
Chapter 5	Life Processes	4
Chapter 6	Control and Coordination	5
Chapter 7	How do Organisms Reproduce?	8
Chapter 8	Heredity	8
Chapter 9	Light – Reflection and Refraction	5
Chapter 10	The Human Eye and the Colourful World	4
Chapter 11	Electricity	8
Chapter 12	Magnetic Effects of Electric Current	8
Chapter 13	Our Environment	5
Total		80

## Learning Outcomes mapped with Types of Question

CHAPTERS	TYPES OF QUESTIONS PER LEARNING OUTCOMES							
	MCQ		VSA		SA		LA	
	No. of Questions	LO Code	No. of Questions	LO Code	No. of Questions	LO Code	No. of Questions	LO Code
Chapter 1			2	10.Sc.LO4 10.Sc.LO5				
Chapter 2			1	10.Sc.LO7	1	10.Sc.LO8		
Chapter 3	2	10.Sc.LO1 10.Sc.LO2			2	10.Sc.LO5 10.Sc.LO7		
Chapter 4	1	10.Sc.LO12	1	10.Sc.LO3			1	10.Sc.LO6 10.Sc.LO9
Chapter 5			2	10.Sc.LO5 10.Sc.LO14				
Chapter 6			1	10.Sc.LO4	1	10.Sc.LO12		
Chapter 7					1	10.Sc.LO5 10.Sc.LO12	1	10.Sc.LO4 10.Sc.LO5
Chapter 8	2	10.Sc.LO15			2	10.Sc.LO5 10.Sc.LO6 10.Sc.LO14		
Chapter 9			1	10.Sc.LO3	1	10.Sc.LO6		
Chapter 10			2	10.Sc.LO5 10.Sc.LO15				
Chapter 11	1	10.Sc.LO8	1	10.Sc.LO13			1	10.Sc.LO9 10.Sc.LO13
Chapter 12	2	10.Sc.LO12 10.Sc.LO14			2	10.Sc.LO5 10.Sc.LO15		
Chapter 13	2	10.Sc.LO1 10.Sc.LO11			1	10.Sc.LO11 10.Sc.LO12		



**DERT**  
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