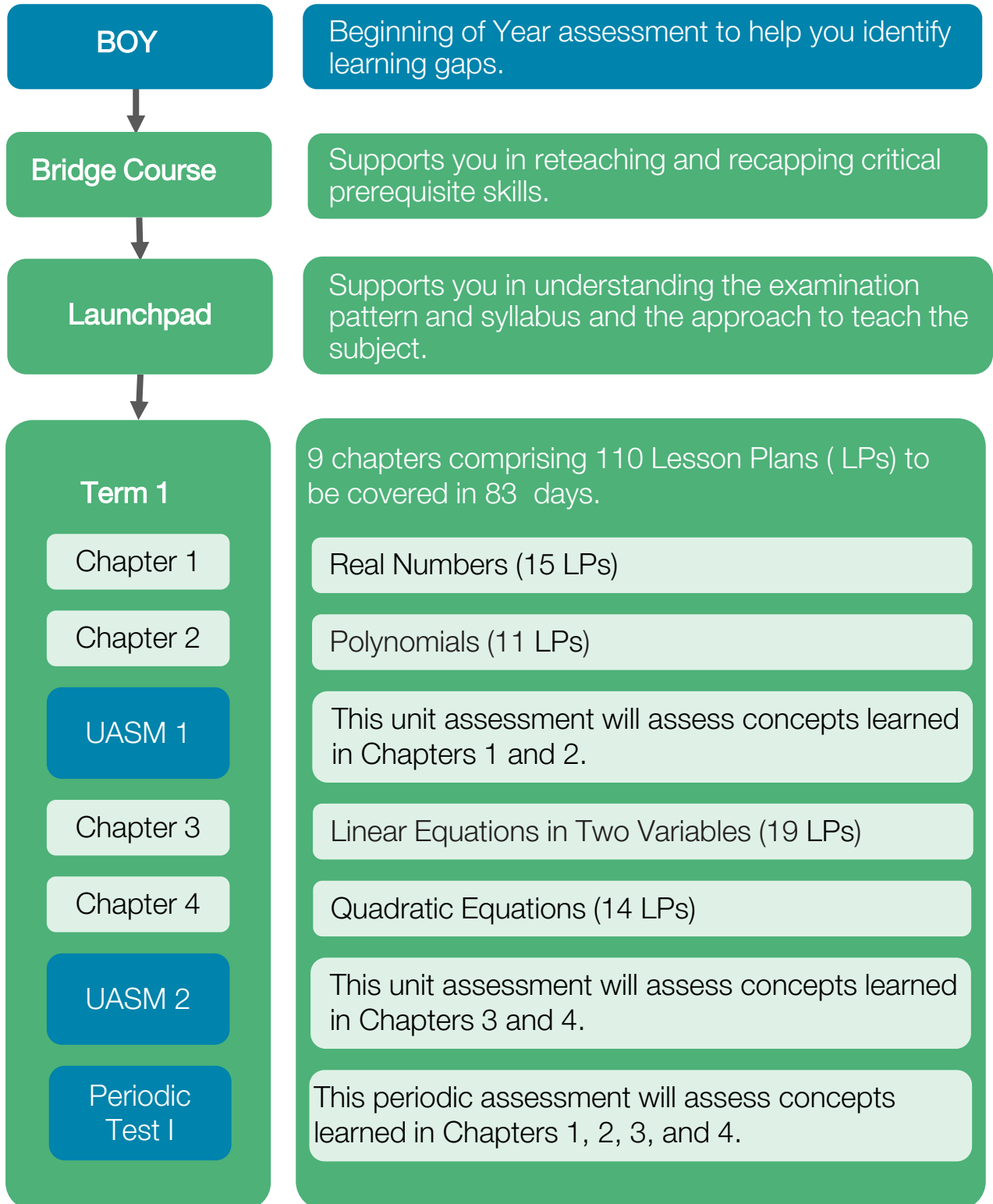


Learning Journey for the Year

Dear teachers, the table below summarises the learning journey you will cover with your students this year.



Learning Journey for the Year

Chapter 5

Chapter 6

UASM 3

Chapter 7

Chapter 10

UASM 4

Chapter 11

Arithmetic Progressions (10 LPs)

Triangles (18 LPs)

This unit assessment will assess concepts learned in Chapters 5 and 6.

Coordinate Geometry (14 LPs)

Circles (9 LPs)

This unit assessment will assess concepts learned in Chapters 7 and 10.

Constructions (9 LPs)

* Chapter dropped as per the rationalized syllabus of AY 2022-23

MOY / Periodic
Test II

Middle of Year Assessment

Term 2

Chapter 8

Chapter 9

UASM 5

Chapter 12

Chapter 13

UASM 6

6 chapters comprising 91 Lesson Plans(LPs) to be covered in 68 days.

Introduction to Trigonometry (25 LPs)

Some Applications of Trigonometry (9 LPs)

This unit assessment will assess concepts learned in Chapters 8 and 9.

Areas Related to Circles (11 LPs)

Surface Areas and Volumes (16 LPs)

This unit assessment will assess concepts learned in Chapters 12 and 13.

Learning Journey for the Year

Periodic
Test III

Chapter 14

Chapter 15

UASM 7

This periodic assessment will assess concepts learned in Chapters 8, 9, 12, and 13.

Statistics (18 LPs)

Probability (12 LPs)

This unit assessment will assess concepts learned in Chapters 14 and 15.

Mocks

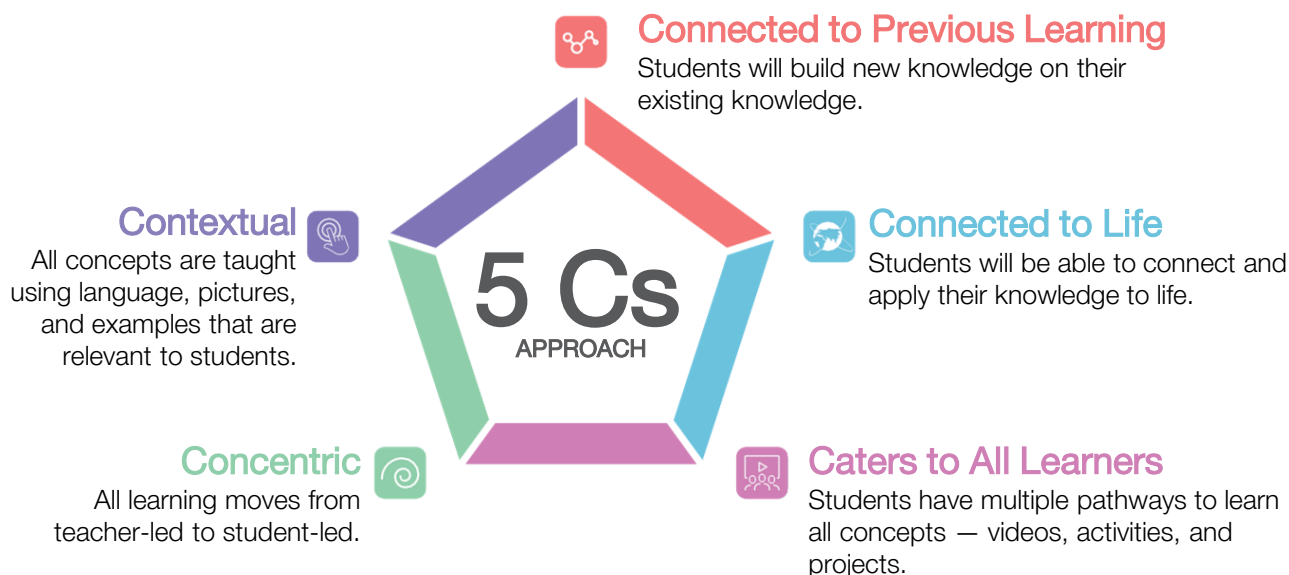
3 Mocks to familiarize students with the Board Pattern

Board Exam

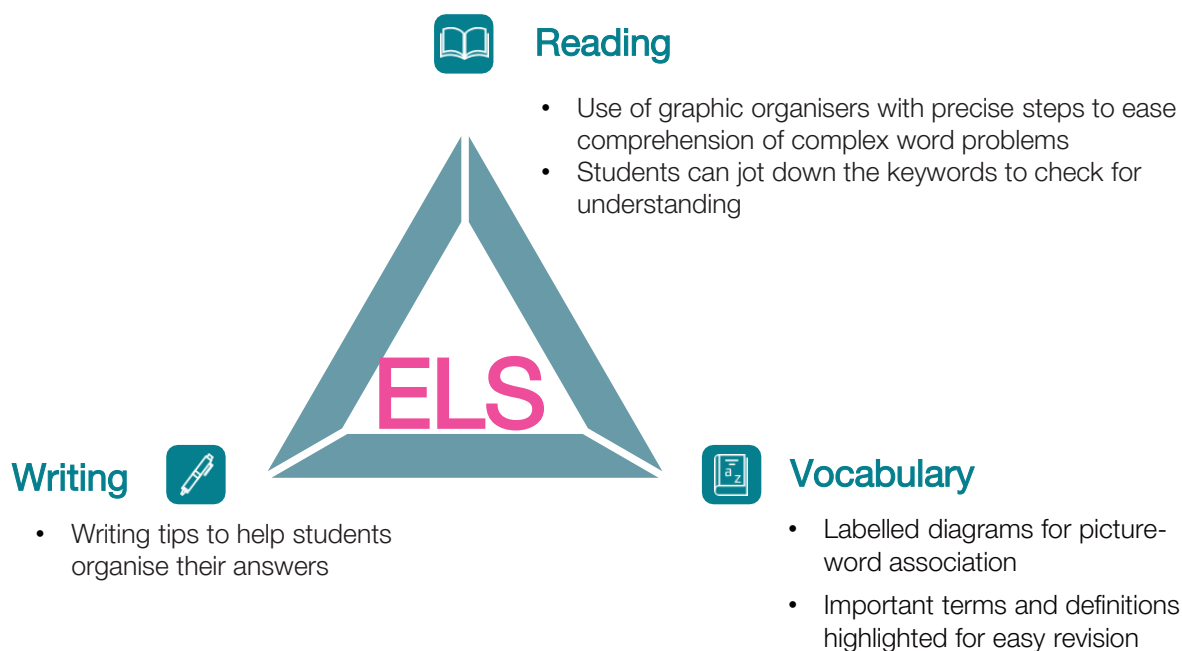
The LEAD Method

The LEAD Method includes unique pedagogical approaches you will use to help your students develop a deep understanding of concepts. These are integrated into the lesson plans.

1. 5Cs Approach: Every concept is taught through the 5Cs approach



2. ELS: English Language Strategies



The LEAD Method

3. CPA: Concrete-Pictorial-Abstract Method

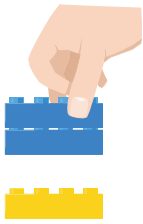
The CPA method helps you build:

Deeper understanding of Math concepts

Better connection of Math topics to life

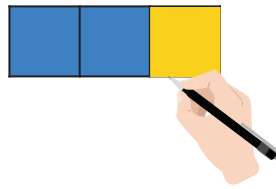
Better spatial and reasoning skills

Concrete



You model and solve Math problems using physical objects.

Pictorial



You use drawings of physical objects to model and solve Math problems.

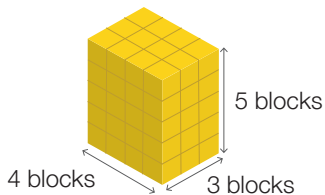
Abstract

$$2 + 1 = 3$$

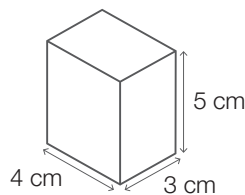
You use symbols to represent the drawings and solve Math problems using these symbols.

Volume of a Cuboid

Concrete



Pictorial



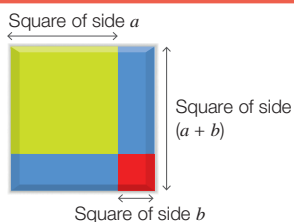
Abstract

$$\begin{aligned} \text{Volume of a Cuboid} &= L \times B \times H \\ &= 4 \times 3 \times 5 \\ &= 60 \text{ cm}^3 \end{aligned}$$

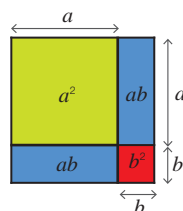
Mensuration

Algebraic Identity

Concrete



Pictorial



Abstract

$$\begin{aligned} (a + b)^2 &= a^2 + 2ab + b^2 \end{aligned}$$

Algebra

Important Icons

Icons and Features of the Book

Let's Recall

Summarizes the previously taught concepts in order to learn the new concepts in the chapter

Concept Time

Simplifies, explains, and summarises select concepts for ease of understanding and revision

Study Tip!

Provides with useful tips that help prepare for the Board Exam

Watch Out!

Highlights the common misconceptions or mistakes that students may make

Did you Know?

Shares interesting facts that help broaden student's understanding of a topic or concept

Solved Examples

Provides model solutions to questions of various types

Practice Questions

Provides the students with a wide range of questions for practice and the development of higher order thinking skills

Revision Guide

Provides a checklist to help students revise a chapter

Important Icons

Icons and Features of the Book



Think

Ensure that you use the routines and structures as mentioned in the plans to achieve excellence in each unit.



Observe



Read

Resources called LCRs will help you understand these in detail. The LCR for each routine or structure will be mentioned under 'Preparation Needed' the first few times that routine is used



Turn and Talk



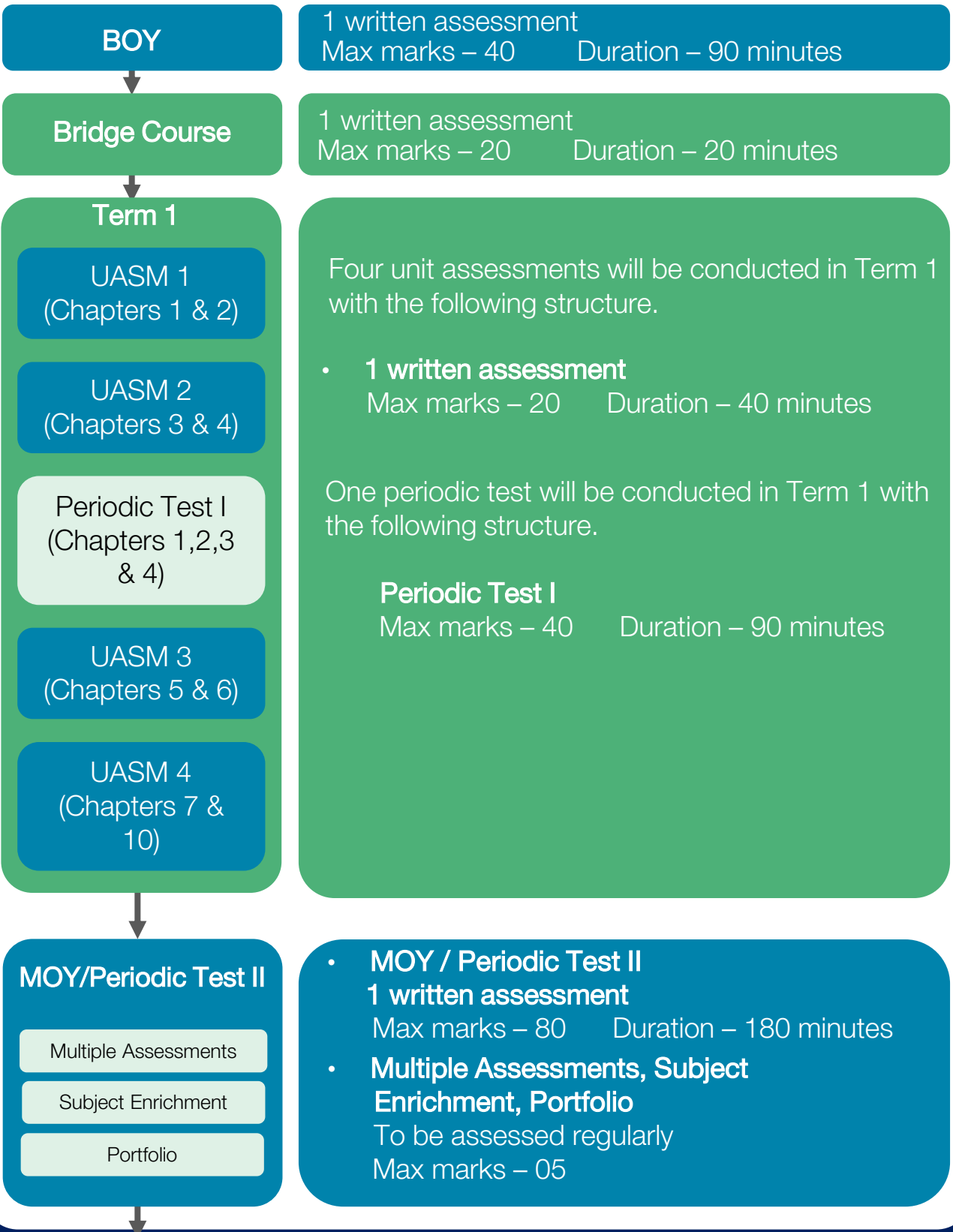
Turn-Write-Pair-Share



Students can access important resources at home by using the LEAD Student App.

Assessment Structure for the Year

The objective of assessments is to check if all students have understood the concept and can apply their learning. Based on assessment data, it is very important to do strong remedials using LEAD remedial recommendation before progressing forward. LEAD prescribes the following assessments:



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Term 2

UASM 5
(Chapter 8 & 9)

UASM 6
(Chapters 12 & 13)

Periodic Test III
(Chapters 8, 9, 12 & 13)

UASM 7
(Chapters 14 & 15)

Three unit assessments will be conducted in Term 2 with the following structure.

- **1 written assessment**

Max marks – 20 Duration – 40 minutes

One periodic test will be conducted in Term 2 with the following structure.

Periodic Test III

Max marks – 40 Duration – 90 minutes

Mocks

Three Mock examinations will be based on the pattern, structure, and syllabus prescribed by CBSE and according to the Sample Question Paper released for AY 2023-24

Structure of the Mock Exam

Max marks – 80 Duration – 180 minutes

Board Exam

Structure of the Board Paper
1 written assessment

Max. marks – 80 Duration – 180 minutes

Assessment Structure for the Year

Internal Assessment – In addition to the Board Examination conducted by CBSE, the Board suggests an Internal Assessment for 20 marks. The structure of the Internal assessment is as follows.

Internal Assessment

Periodic Tests
(5 marks)

Three periodic assessments will be conducted during the year.

Periodic Multiple Assessments
(5 marks)

In-class Quizzes, Oral Tests, Concept Maps, Exit Cards, and Visual Expressions to be conducted by the teacher. Graded as per the rubric provided. Assessed once per term.

Portfolio
(5 marks)

A portfolio is a collection of intentionally chosen student work. Assembled over time, it represents the learner's efforts, progress, growth, and achievements with respect to learning outcomes. Assessed once per term

Subject Enrichment Activities
(5 marks)

It is essential to assess at least one subject enrichment activity per term. For math, the Board suggests lab activities as Subject Enrichment

Assessment Framework

Unit Assessments

The written unit assessments will have the following structure.

Types of Questions	Marks	Questions	Total Marks
Multiple Choice Questions	1	3	3
Assertion-Reason Questions	1	1	1
Short Answer Questions	2	2	4
Long Answer Questions	3	1	3
Long Answer Questions	5	1	5
Case based Questions	4	1	4
		9 questions	20 marks

Periodic Assessments

Periodic assessments will have the following structure.

Types of Questions	Marks	Questions	Total marks
Multiple Choice Questions	1	8	8
Assertion-Reason Questions	1	2	2
Very Short Answer Questions	2	3	6
Short Answer Questions	3	2	6
Long Answer Questions	5	2	10
Case based Questions	4	2	8
		19 questions	40 marks

Assessment Framework

MOY Assessments

The MOY assessments will have the following structure.

Types of Questions	Marks	Questions	Total Marks
Multiple Choice Questions	1	18	18
Assertion-Reason Questions	1	2	2
Very Short Answer Questions	2	5	10
Short Answer Questions	3	6	18
Long Answer Questions	5	4	20
Case based Questions	4	3	12
		38 questions	80 marks

*Note: The **Mock Assessments** structure will be as per the sample question paper released by the board for the academic year 2023-24.*

Assessment Framework

Spiraling in Assessments

- In Unit Assessments – Syllabus for UASM can be seen in the Important notes section.
- In MOY – All the questions will be from Term 1 chapters.
- In Periodic Test: III – 60-70% questions from Term 2 chapters and remaining from Term 1 chapters.
- In Mocks, all chapters as per the Board Syllabus will be covered.

Difficulty level of Questions

Difficulty level of questions in the assessments are based on Board guidelines. All questions are categorised as per the table below:

	LOTS (Lower Order Thinking Skills)	MOTS (Middle Order Thinking Skills)	HOTS (Higher Order Thinking Skills)
Definition	Questions based on recalling knowledge	Questions based on applying skills in familiar scenarios	Questions based on applying skills in unfamiliar scenarios, analyzing situations and building on top of what was taught in class.
Bloom's Level	Remember	Understand Application (simple)	Application (complex) Evaluate Analyse Create

In line with Board guidelines, LEAD assessments follow the structure explained below

Unit Assessments- 55% LOTS : 25% MOTS : 20% HOTS

Periodic and MOY Assessments- 55% LOTS : 25% MOTS : 20% HOTS

Materials Required

You will need the following materials for the various activities and experiments that will be conducted in Term 1.

Term 1 – List of Materials Required

Chapter 1: Real Numbers

- 4 rectangular paper strips of different colours (1 per class)
- Double sided tape (1 per class)

Chapter 6: Triangles

- CRP-1 – BPT (1 per student)
- CRP-3 – Similarity of triangles (1 for a group of 4 students)

Chapter 11: Constructions

- CRP-1 – Construction of triangles (4 – 5 copies)

Note:

- The portion marked in red is not included in the CBSE syllabus for the academic year 2022-23.
- Materials required for the subject enrichment (SE) activities are not included here. To know the exact materials required for an SE activity, please go through the teacher preparation section of its day plans.

Materials Required

You will need the following materials for the various activities and experiments that will be conducted in Term 2.

Term 2 — List of Materials Required

Chapter 8: Introduction to Trigonometry

- A4 size sheets (1 for a pair of students)

Chapter 9: Application of Trigonometry

- Packets of straws (1 for each group)
- Pieces of string (about 30-40 cm long) (1 for each group)
- Sellotapes (1 for each group)
- Pairs of scissors (1 for each group)

Chapter 15: Probability

- A die (1 each pair of students)
- An A4 sheet (1 for a group of 4 students)

Note:

Materials required for the subject enrichment (SE) activities are not included here. To know the exact materials required for an SE activity, please go through the teacher preparation section of its day plans.