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





Learning Journey for the Year



Note: All subject enrichment (SE) activities are optional. However, It is recommended that students perform them in class in order to strengthen their conceptual understanding.

Life Skills - The important skills that students will develop this year are:

≸ THINK		ငံ COLLABORATE
 Solving real-world problems Creating new ideas Being curious Reflecting on your learning Learning from mistakes 	 Communicating effectively Presenting ideas Using information Using different media 	 Working with others Appreciating others' ideas Resolving conflicts Connecting yourself to your community Connecting yourself to the nation



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





The LEAD Method

LBD — Learning by Doing



Learning by Doing is followed in various ways:

In-Class Activities



Laboratory Experiments



Videos and Demonstrations



Making Models







Important Icons and Features

Icons and Features of the Books

Provide activities and questions that help students apply new concepts to their life.

ACTIVITY

Help students understand concepts and apply their learnings.

KEYWORDS

Provide meanings of difficult words as they read.

Provide opportunities for building thinking skills.

🕾 COLLABORATE

Provide opportunities for building collaboration skills.

COMMUNICATE

Provide opportunities for building communication skills.



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

Icons and Features in the Lesson Plans



Think



Observe



Read



Turn and Talk

Turn-Write-Pair-Share

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

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.



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:



Class 7 – Science

Assessment Structure for the Year





Assessment Framework

Unit Assessments

The written unit assessments have the following structure.

Types of Question	Marks	Questions	Total Marks
Multiple Choice Questions	1	4	4
Fill in the Blanks	4	1	4
Short Answer Questions	2	4	8
Long Answer Questions	4	1	4
		10 questions	20 marks

MOY & EOY Assessments

MOY and EOY assessments will have the following structure.

Types of Question	Marks	Questions	Total Marks
Multiple Choice Questions	1	16	16
Fill in the Blanks	8	2	16
Short Answer Questions	2	12	24
Long Answer Questions	4	6	24
		36 questions	80 marks



Assessment Framework

Spiraling in Assessments

- In MOY 100% questions will be from Term 1 Units.
- In EOY 75% questions will be from Term 2 Units, and 25% will be from Term 1 Units.
- In Unit Assessments For every group subject, the unit assessment will cover 85%-90% marks from that unit and 10-15% marks from the previous units. This is to help students practice concepts and be better prepared for MOY and EOY.
- The exact syllabus is provided in the Important Notes of the respective assessment day.

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 ASM 1 - 50% LOTS : 40% MOTS : 10% HOTS Unit ASM 2 - 50% LOTS : 40% MOTS : 10% HOTS Unit ASM 3 - 40% LOTS : 50% MOTS : 10% HOTS Unit ASM 4 - 30% LOTS : 50% MOTS : 20% HOTS MOY - 30% LOTS : 50% MOTS : 20% HOTS Unit ASM 5, 6, 7 - 30% LOTS : 50% MOTS : 20% HOTS EOY – 30% LOTS : 50% MOTS : 20% HOTS

We increase the level of difficulty for students slowly in Term 1.



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

Term 1 – List of Materials
 Chapter 1: Nutrition in Plants Potted green plants — 2 Test tubes — 2 Beaker (small) — 2 Dropper — 1 Burner or spirit lamp (and spirit for the lamp) — 1 Petri dishes — 2 Test tube holder — 1 Tripod stand — 1 Wire gauge — 1 Forceps — 1 Ethyl alcohol Iodine solution A4 sheet of paper — 5
 Chapter 2: Nutrition in Animals A4 sheet of paper — 4
 Chapter 3: Respiration in Organisms Chart paper — 1 Plastic bottle with cap — 1 Small balloons — 2 Big balloon — 1 Plastic straws — 2 Adhesive tape — 1 roll
 Chapter 3: Respiration in Organisms (Continued) Clay dough — 1 packet Straws — 1 per group
 Chapter 4: Forests: Our Lifeline A4 sheet of paper — 1 sheet per group



Biology

Continued . . .

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

Term 1 – List of Materials

Chemistry	 Chapter 1: Substances: Acids, Bases, and Salts Clay — 1 packet per group Bottle of blue ink — 1 Red litmus paper strips — 4 Blue litmus paper strips — 4 China rose flower — 2 Cotton bud — 4 Phenolphthalein indicator Methyl orange indicator Dilute sodium hydroxide solution Paper strips — 4 Stirrer — 1 Dilute hydrochloric acid — 40 mL Dilute sodium hydroxide solution — 40 mL Laboratory thermometer — 1
	 Chapter 2: Chemical Reactions (Continued) Oil — 25 mL Iron filings — 10 g Copper sulphate crystals —10 g Sodium carbonate —10 g Iron sulphide — 10 g Acetic acid — 25 mL Dilute hydrochloric acid — 25 mL Dilute sulphuric acid — 25 mL Limewater — 25 mL Limewater — 25 mL Blue litmus paper strip — 1 Red litmus paper strip — 1 Test tubes — 7



Continued . . .

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

	Term 1 – List of Materials
Chemistry	 Test tubes — 7 Spatula — 1 Bent glass tube / U-tube — 1 Rubber corks — 5 Pair of tongs — 1 Spirit lamp — 1
Physics	 Chapter 1: Heat and Temperature Big bowls — 3 Digital clinical thermometer — 1 Liquid-in-glass clinical thermometer — 1 Laboratory thermometers — 5 to 6 Beakers/glasses/paper cups — 10 to 12 Retort stands (optional) — 5 to 6
	 Chapter 1: Heat and Temperature (Continued) Board or thumb pins — 5 to 7 100 mL beaker — 1 500 mL plastic bottles — 2 Black chart paper — 1 White chart paper — 1 Play dough or clay
	 Chapter 2 : Light: Spherical Mirrors and Lenses Concave mirror — 1 Convex mirror — 1 Convex lens — 1 Concave lens — 1 Lens holder — 1 White cardboard — 1 Cardboard stands — 2 White chart papers — 4 Roll of adhesive tape — 1 Magnifying glass — 1

KEAD

Continued . . .

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



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

	Term 2 – List of Materials
Biology	 Chapter 9: Wastewater Management 250 mL beaker — 2 1L plastic bottle — 1 Filter paper — 2 Liquid soap Any colouring dye Medium-sized sieve — 1 Funnel — 2 Chlorine tablet — 2
Physics	 Chapter 4: Electricity: Heating and Magnetic Effects AA batteries — 1 Bulb — 1 Connecting wires Switch — 1 Adhesive tape — 1 9V batteries with snap connectors — 1 Nichrome wire Graphite pencil lead — 1 Insulated copper wire Magnetic compass — 1 Matchbox or cardboard tray — 1 Retort stand with a holder — 1 Piece of cardboard with a hole in its centre — 1 Iron filings Magnetic compass — 1 Iron filings Magnetic compass — 1 Iron nails Steel paper clips

