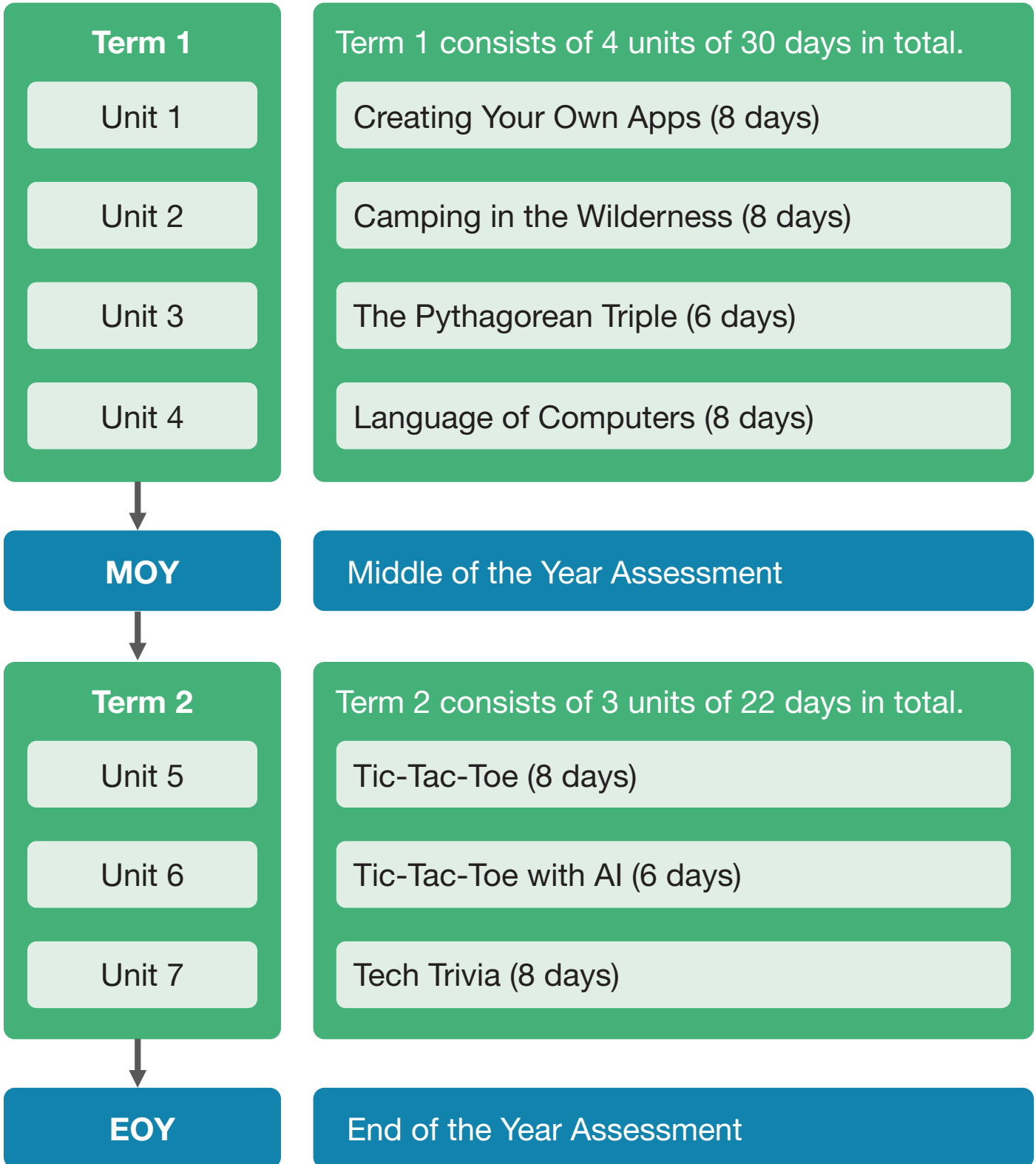









# Learning Journey for the Year

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



# Detailed Syllabus for the Year

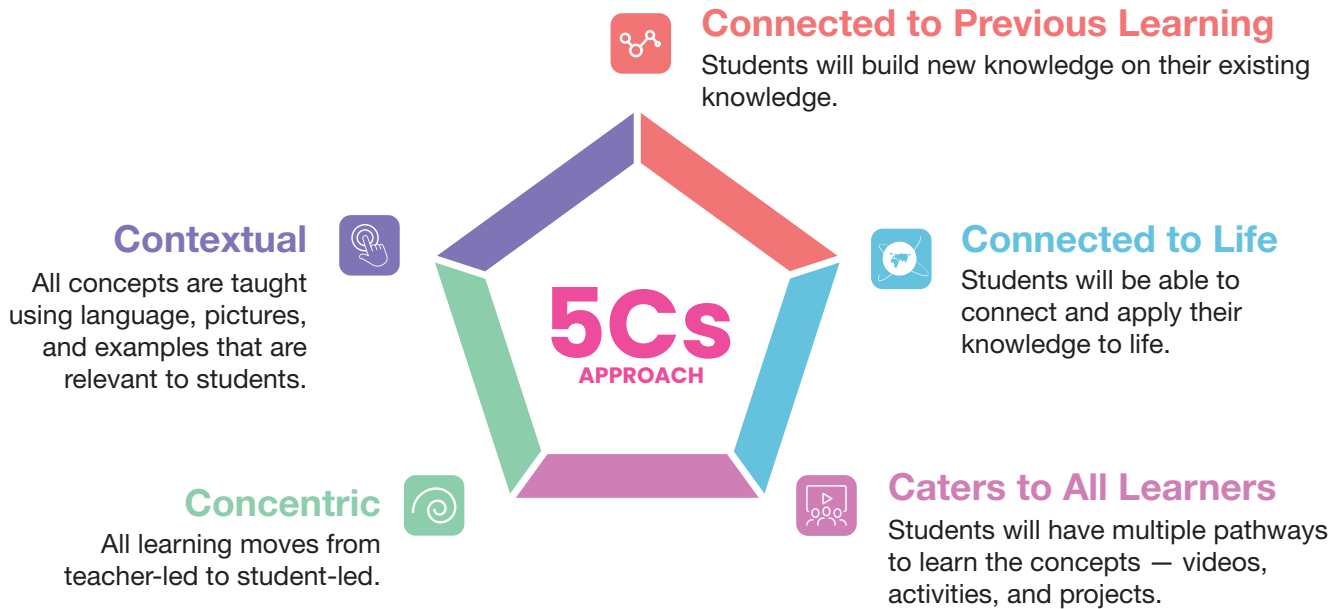
The roadmap given below lists the units covered in each term. Term 2 units will be visible on the tab after the completion of MOY.

PART 1	Unit Name	USE Software/ Programming language	THINK Skills	BUILD Project
	1. Creating Your Own Apps	MIT App Inventor with emulator/AI2 companion	Creativity Decomposition Problem-solving Coding	Create the AudioNotes, AroundTheWorld and MyTranslator apps using App Inventor.
	2. Camping in the Wilderness	MIT App Inventor with emulator/AI2 companion	Decomposition Abstraction Problem-solving Coding	Create the VoiceClock and MyCompass apps using App Inventor.
	3. The Pythagorean Triple	Python (Introduction)	Critical thinking Mathematical thinking Algorithms Coding	Create a Pythagorean Triple simulator using operators and conditions in Python.
	4. Language of Computers	Python (Intermediate)	Logical thinking Coding Decision-making Abstraction	Create a binary to decimal and decimal to binary converter using Python.
PART 2	Unit Name	USE Software/ Programming language	THINK Skills	BUILD Project
	5. Tic-Tac-Toe	Python (Advance)	Creativity Coding Problem-solving	Create a single player Tic-Tac-Toe game using Python.
	6. Tic-Tac-Toe with AI	Python (Artificial Intelligence)	Creativity Coding Problem-solving Analysis	Create an AI based Tic-Tac-Toe game using Python.
	7. Tech Trivia	HTML and CSS	Visualisation Creativity Critical thinking Coding	Create a tech quiz website using HTML and CSS.

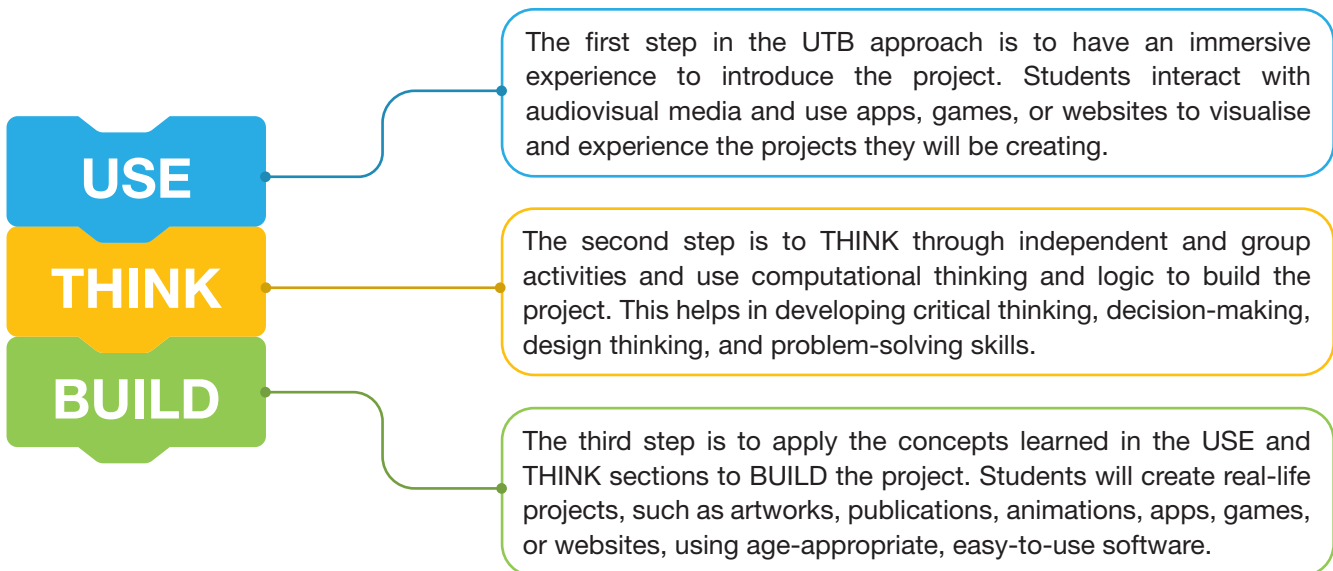
# The LEAD Method

The tables below show the LEAD Method that you will be following with your students.

## 1. The 5 Cs : Every concept is taught using the 5 Cs approach.

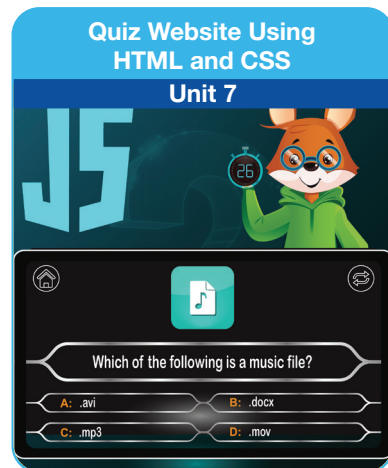
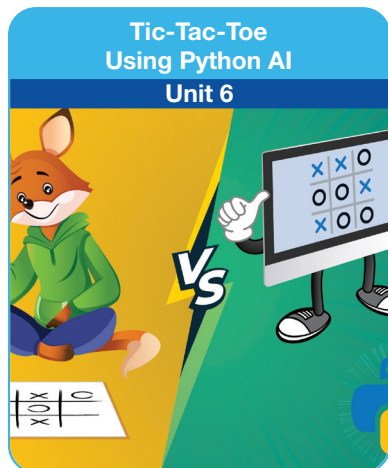
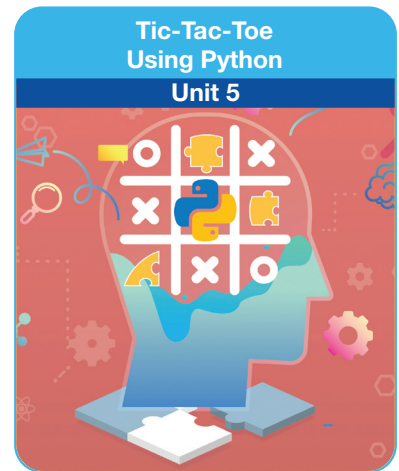
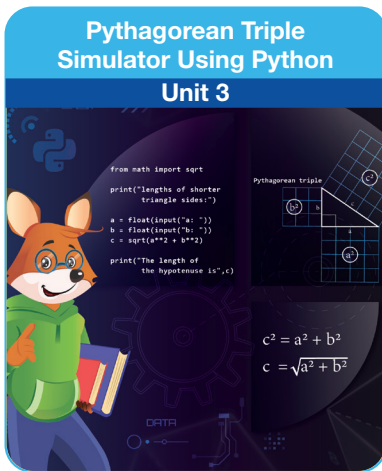
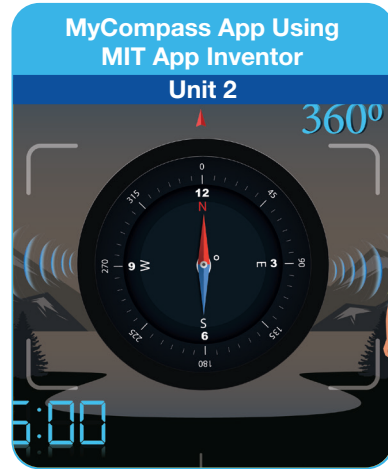


## 2. Use-Think-Build (UTB): Every unit follows the UTB pedagogical approach.



# The LEAD Method

**3. Project—Based Learning:** Students demonstrate skills such as abstraction, decomposition, visualisation, creativity, and problem-solving by building projects at the end of every unit.



# Important Icons

## Icons and Features of the Book



### Introduction

Provides a brief idea of the concepts.



### Activity

Helps students understand concepts and apply their learnings.



### Skill Time

Provides USE-THINK-BUILD approach to create real-life projects.



### Project

Helps students to integrate all the skills.



### Checkpoint

Helps students to earn badges or certificates.

### Keywords

Provide meanings of difficult words as they read.



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

**Red:** to watch videos on various topics

**Blue:** to read documents and learn concepts

**Green:** to download badges and certificates

## Icons and Features used in the Lesson Plans



### Turn and Talk

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



### Turn-Write-Pair-Share

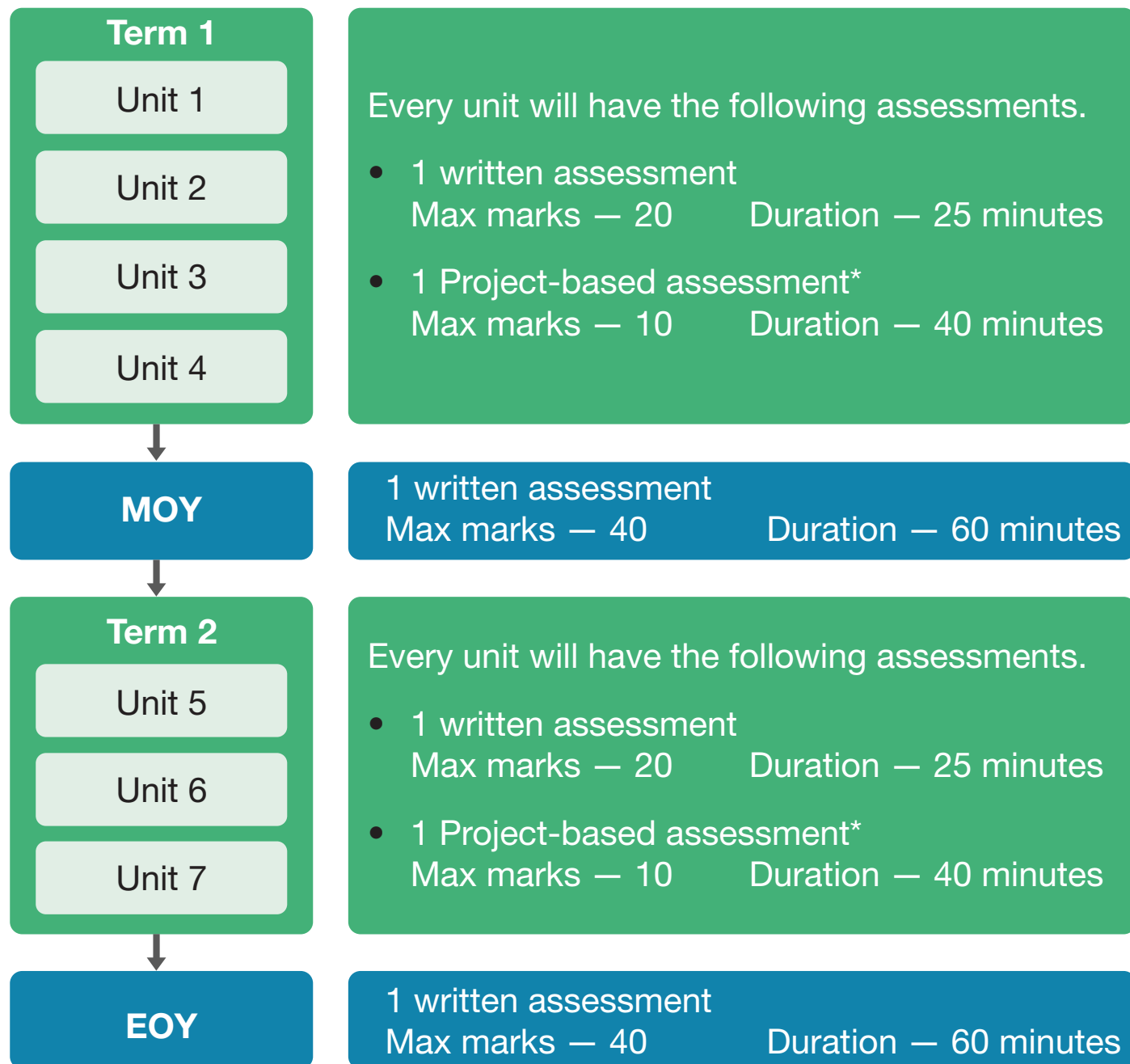
Resources called LCRs will help you understand these in detail. The LCR for each routine or structure will be mentioned under 'Preparation Needed' the first few times that routine is used.



### Stop and Jot

## Assessment Structure for the Year

The objective of the assessments is to check if all students have understood the concepts and can apply their learning. Based on the assessment data, it is very important to do strong remedial before progressing forward. The CCS curriculum prescribes and provides the following assessments.



**Note:** \*This is in line with NEP 2020's recommendations to include computational thinking and project-based assessments from early years.

# Assessment Framework

## Unit Assessments

The written unit assessments will have the following structure.

Type of Question	Marks	Questions	Total Marks
Multiple choice questions	1	4	4
Very short answer questions – Fill in the blanks	1	4	4
Short answer questions	2	1	2
Short answer questions – Debug	2	1	2
Long answer questions – Coding	4	2	8
		<b>12 questions</b>	<b>20 marks</b>

## MOY & EOY Assessments

MOY and EOY assessments will have the following structure.

Type of Question	Marks	Questions	Total Marks
Multiple choice questions	1	4	4
Fill in the blanks	1	4	4
Match the following	1	4	4
Short answer questions – Fill Go	1	4	4
Very short answer questions – Coding	1	2	2
Short answer questions	1	4	4
Short answer questions – Debug	2	2	4
Short answer questions – Coding	3	2	6
Long answer questions – Debug	4	2	8
		<b>28 questions</b>	<b>40 marks</b>

### Note:

- In MOY - 100% questions will be from Term 1 Units.
- In EOY - 100% questions will be from Term 2 Units.

# Assessment Framework

## Project Evaluation Rubric

Duration: 40 minutes

Total marks: 10

Strand/Score	2 - Excellent	1.5 - Needs Improvement	1- Unsatisfactory
<b>Understanding</b>	Student was able to understand the objectives of the project	Student partially understood the objectives and what needs to be created.	Student did not understand most of what was expected from the project.
<b>Design</b>	Student was able to visualise and design elements of the project very well.	Student was able to visualise and design elements of the project to satisfactory levels.	Student was not able to design some of the elements of the project.
<b>Logic</b>	Student was able to apply logical thinking to be able to solve the problem or steps required to create the project.	Student was partially able to solve the problem or apply the steps required to create the project.	Student was unable to think logically or apply the steps required to create the project.
<b>Output</b>	The output was as per prescribed project description.	The output was partially achieved as per project description.	The output achieved was not as per project description.
<b>Completion and Time Management</b>	Student was able to complete the project in the assigned time	Student was able to complete 75% of the project in the assigned time	Student was able to complete 50% or lesser of the project in the assigned time.

## Difficulty level of Questions

Difficulty level of questions in the assessments are categorised as per the table below:

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

**Note:** ASMs (Term 1 / Term 2) • 30 (LOTS) • 50 (MOTS) • 20 (HOTS)  
MOY / EOY • 30 (LOTS) • 50 (MOTS) • 20 (HOTS)