LESSON PLAN 1
SUBJECT : SCIENCE
CLASS: IX

(BLOOM'S LEVELS AND SUB CATEGORIES TO BE PUT, ACCORDINGLY, THE TABLE TO BE FILLED)

TOPIC- MOTION

BRIEF DESCRIPTION- Rest and Motion, scaler and vector quantities, distance and displacement, speed and velocity, acceleration and retardation, position time graph , Velocity time graph, uniform circular motion , three equation of motion

KPI DEFINITION :

KPI 01: Students face problems in understanding the conceptual questions, HOT'S questions

KPI 02 : Students face problems in solving numerical portion/ mathematical calculations

KPI 03 : Students Face problem in analytical study of Graphical portion, applying proper formula, to understand the sign convection in topics such as motion, forces and Laws of motion , Gravitation, work and Energy etc.

KPI 04: students face problem in framing a particular diagram/graph for any particular set of problems

by graphical method.

OBJECTIVES:

I- Specific Objectives-

a) To give more practice to students in form of different pattern of questions.

b) To discuss about the practical example related to topic so that students can be able to solve Case based study. this will help to conncet the subject with daily life examples.
c) Students Face problem in graph study.

II -Behavioural Objectives

To enable the students to-

B1 to develop interest in framing their own practical examples
B2 To Develop the critical thinking and scientific Attitude of the students.
B3 To Find problem in understanding the language of questions and time management

PROCESS /ACTIVITIES

ACT 1 : to study types of motion
ACT 2 : to calculate Area covered under the graph and hence to find distance /Displacement
ACT 3 : to Observe the general applications of equation of motion in daily life.

ASSESSMENT:

A1 - Worksheet of Related topic should be given to the students

A2 - Students can Also be assessed on the Basis of Activities that they are performing in Lab and to teach them about the concept of error occurred in there theoretical and practical Reading

A3 - Self designed MCQ sheets to be given to students so that the student would also become a critical Thinker.

DIGITAL CONTENT TO BE USED: (if applicable)

To explain the topic properly in a visualized manner.

EXPECTED LEARNING OUTCOME–

Students will be able to:

1. To get the complete understanding of the chapter.
2. Solve different typology of questions
3. Can connect the subject with their daily life examples

	Placement of Objectives, Instructional Activities and Assessment **Topic: MOTION**					
	KNOWLEDGE	**UNDERSTANDING**	**APPLICATION**	**ANALYSIS**	**SYNTHESIS**	**EVALUATION**
Objectives	B1	SP1	SP2	SP2	B2	B3
Activities		SP3				
Assessment	ACT1	ACT2	ACT3			

<u>REVIEW OF THE LESSON PLAN</u>
(TO BE DONE WHEN THE LESSON GETS OVER)

Problems faced –
Success-
Failure-
Real Learning Outcomes
ELO-

Students' response/ participation

Teacher's Learning

TO INCORPORATE IN TERM 2-

LESSON PLAN 2
SUBJECT : SCIENCE
CLASS: IX

(BLOOM'S LEVELS AND SUB CATEGORIES TO BE PUT, ACCORDINGLY, THE TABLE TO BE FILLED)

TOPIC- FORCES AND LAWS OF MOTION

BRIEF DESCRIPTION- Force and Motion, Newton's Laws of Motion, Action and Reaction forces, Inertia of a body, Inertia and mass, Momentum, Force and Acceleration.

KPI DEFINITION :

KPI 01: Students face problems in understanding the conceptual questions, HOT'S questions

KPI 02 : Students face problems in solving numerical portion/ mathematical calculations of the Above topic such as Collision and its Applications

KPI 03 : students face problem in framing a particular diagram/graph for any particular set of problems

OBJECTIVES:

I- Specific Objectives-

SP1 To give more practice to students in form of different pattern of questions.
SP2 Proper Book Reading And points to Remember part is to be prepared for MAKING OUTLINE OF MCQ TYPES OF QUESTION.
SP3 To discuss about the practical example related to topic so that students can be able to solve Case based study. this will help to connect the subject with daily life examples.

SP4 To understand the practical Application of the topic because the same concept is useful in Gravitation, floatation, Work and energy etc.

II -Behavioral Objectives

To enable the students to-

B1 To develop interest in framing their own practical examples

B2 To Develop the critical thinking and scientific Attitude of the students.

PROCESS /ACTIVITIES

ACT 1 : to study types Forces such as vibrational force ,gravitational force etc. and frame their own practical examples.

ACT 2 : to study different cases of collision and to prepare the model for different cases of collision.

ASSESSMENT:

A1 - Worksheet of Related topic should be given to the students

A2 - Students can Also be assessed on the Basis of Activities that they are performing in Lab

A3 - Self designed MCQ sheets to be given to students so that the student would be able to solve different pattern of questions.

DIGITAL CONTENT TO BE USED: (if applicable)

To explain the topic properly in a visualized manner.

EXPECTED LEARNING OUTCOME–

Students will be able to:

1. To get the complete understanding of the chapter.
2. Solve different typology of questions
3. Can connect the subject with their daily life examples

	Placement of Objectives, Instructional Activities and Assessment Topic: MOTION					
	KNOWLEDGE	**UNDERSTANDING**	**APPLICATION**	**ANALYSIS**	**SYNTHESIS**	**EVALUATION**
Objectives	SP2 /B1	SP1	SP3/SP4/B2	SP3/ SP4		
Activities		ACT 1	ACT 1			
Assessment	A1	A2		A3		

REVIEW OF THE LESSON PLAN
(TO BE DONE WHEN THE LESSON GETS OVER)

Problems faced –
Success-
Failure-
Real Learning Outcomes
ELO-
Students' response/ participation
Teacher's Learning
TO INCORPORATE IN TERM 2-

LESSON PLAN 3
SUBJECT : SCIENCE
CLASS: IX

(BLOOM'S LEVELS AND SUB CATEGORIES TO BE PUT, ACCORDINGLY, THE TABLE TO BE FILLED)

TOPIC: GRAVITATION

BRIEF DESCRIPTION: Universal Law of Gravitation, Force of Gravitation of the earth (gravity), Acceleration due to Gravity; Mass and Weight; Free fall.

KPI DEFINITION :

KPI 01: Students face problems in understanding the conceptual questions, HOT'S questions related to gravitation

KPI 02 : Students face problems in solving numerical portion/ mathematical calculations of the Above topic such as applying the concept of g (Acceleration due to gravity) in three equations of motion

KPI 03 : students face problem in framing a particular diagram/graph for any particular set of problems

OBJECTIVES:

I- Specific Objectives-

SP1 To give more practice to students in form of different pattern of questions.
SP2 Proper Book Reading And points to Remember part is to be prepared for preparation of Assertion and reasoning type Questions.
SP3 To discuss about the practical example related to topic so that students can be able to solve Case based study. this will help to connect the subject with daily life examples.
SP4 To understand the practical Application of the topic because the same concept is useful in motion, floatation, Work and energy etc

II -Behavioral Objectives

To enable the students to-

B1 To develop interest in framing their own practical examples

B2 To Develop the critical thinking and scientific Attitude of the students.

PROCESS / ACTIVITIES

ACT 1 : To demonstrate the Activity of spring Balance for understanding the concept of mass and weight

ACT 2 : To make them understand about the concept of Gravity by Releasing the two objects of different Masses and to make them understand about Air friction .

ASSESSMENT:

A1 - Worksheet of Related topic should be given to the students

A2 - Students can Also be assessed on the Basis of Activities that they are performing in Lab

A3 - Self designed MCQ sheets to be given to students so that the student would be able to solve different pattern of questions.

DIGITAL CONTENT TO BE USED: (if applicable)

To explain the topic properly in a visualized manner.

EXPECTED LEARNING OUTCOME–

Students will be able to:

4. To get the complete understanding of the chapter.
5. Solve different typology of questions
6. Can connect the subject with their daily life examples

	Placement of Objectives, Instructional Activities and Assessment Topic: MOTION					
	KNOWLEDGE	**UNDERSTANDING**	**APPLICATION**	**ANALYSIS**	**SYNTHESIS**	**EVALUATION**
Objectives	SP2 /B1	SP1	SP3/SP4/B2	SP3/ SP4		
Activities		ACT 1	ACT 1			
Assessment	A1	A2		A3		

REVIEW OF THE LESSON PLAN
(TO BE DONE WHEN THE LESSON GETS OVER)

Problems faced –
Success-
Failure-
Real Learning Outcomes
ELO-
Students' response/ participation
Teacher's Learning
TO INCORPORATE IN TERM 2-

LESSON PLAN 4
SUBJECT : SCIENCE
CLASS: IX

(BLOOM'S LEVELS AND SUB CATEGORIES TO BE PUT, ACCORDINGLY, THE TABLE TO BE FILLED)

TOPIC: GRAVITATION

BRIEF DESCRIPTION: Floatation: Thrust and Pressure. Archimedes' Principle; Buoyancy
KPI DEFINITION :

KPI 01: students face problem in understanding the practical Application of Archimedes Principle

KPI 02 : Students face problems in understanding the concept of Numerical related to pressure.

OBJECTIVES:

I- Specific Objectives-

SP1 To give more practice to students in form of different pattern of questions.
SP2 Proper Book Reading And points to Remember part is to be prepared for preparation of Assertion and reasoning type Questions.
SP3 To discuss about the practical example related to topic so that students can be able to solve Case based study. this will help to connect the subject with daily life examples.

II -Behavioral Objectives
To enable the students to-
B1 To develop interest in framing their own practical examples
B2 To Develop the critical thinking and scientific Attitude of the students.

PROCESS / ACTIVITIES

ACT 1 : To find pressure among Different faces of a rectangular block by using spring Balance

ACT 2 : To explain about the basic difference between the Mass and Weight by demonstrate them activity by taking various masses in gram and Kg and to show them mathematical calculations using Spring Balance.

ASSESSMENT:

A1 - Worksheet of Related topic should be given to the students

A2 - Students can Also be assessed on the Basis of Activities that they are performing in Lab

A3 - Self designed MCQ sheets to be given to students so that the student would be able to solve different pattern of questions.

DIGITAL CONTENT TO BE USED: (if applicable)

To explain the topic properly in a visualized manner.

EXPECTED LEARNING OUTCOME–

Students will be able to:

1. To get the complete understanding of the chapter.
2. Solve different typology of questions
3. Can connect the subject with their daily life examples

	Placement of Objectives, Instructional Activities and Assessment Topic: MOTION					
	KNOWLEDGE	**UNDERSTANDING**	**APPLICATION**	**ANALYSIS**	**SYNTHESIS**	**EVALUATION**
Objectives	SP2 /B1	SP1	SP3/SP4/B2	SP3/ SP4		
Activities		ACT 1/ ACT 2	ACT 1	ACT 1/ ACT 2		
Assessment	A1	A2		A3		

REVIEW OF THE LESSON PLAN
(TO BE DONE WHEN THE LESSON GETS OVER)

Problems faced –
Success-
Failure-
Real Learning Outcomes
ELO-
Students' response/ participation
Teacher's Learning
TO INCORPORATE IN TERM 2-