



**BHAVAN'S BHAGWANDAS PUROHIT VIDYA MANDIR,
NAGPUR**

**CURRICULUM PLAN
(2023-24)**

STD: IX SUBJECT: PHYSICS

Abhutan
Smt. Anju Bhutani
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Nagpur Kendra.
Nagpur

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BHAVAN'S BHAGWANDAS PUROHIT VIDYA MANDIR, NAGPUR
CURRICULUM PLAN- 2023-24
SUBJECT:-PHYSICS
STD:- IX

MONTH	WEEKLY DATES	TOTAL NO. OF PERIODS	NAME OF THE TOPIC	SUB-TOPICS	NO.OF PERIODS REQUIRED	ACTIVITIES/ SMART CLASS MODULES	ASSIGNMENTS /EVALUATION	LEARNING OUTCOMES/ SUSTAINABLE DEVELOPMENT GOALS / SKILLS ASSESSED
APRIL	5 th to 30 th	8	Chapter 7- Motion	7.1 - Describing motion 7.1.1 - Motion along a straight line 7.1.2 - Uniform motion and Non-uniform motion 7.2 - Measuring the rate of motion 7.2.1 - Speed with direction 7.3 - Rate of change of velocity	1 1 2 1 1	Activity – 1. Gamification tool-Snake and ladder activity to understand distance and displacement. 2.Graph based activity- Plotting graphs for uniform and non-uniform motion and calculation of speed and acceleration based on the given data. 3. Implement hands-on activity on force and motion on the playground to understand motion and calculate speed. 4. Present a news article on motion of objects and ask students to analyse its validity.	Textual questions Numerical related to Speed and Velocity will be discussed and given as H.W	The students will be able to: <ul style="list-style-type: none"> Comprehend the concept of rest and motion- communication skills. Differentiate between uniform and non-uniform motion-analytical skills. Represent different types of motion graphically- creative skills. Analyse and interprets graphs on distance-time and velocity-time, computing distance and speed- problem solving.

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JUNE	4 th week 20 th to 24 th	2	Chapter 7- Motion	7.4 - Graphical representation of motion 7.4.1 - Distance time graphs 7.4.2 - Velocity time graphs	1	1. Types of motion. 2. Displacement 3. Uniform motion 4. Non-uniform motion 1. Calculation of speed and acceleration by graphical method. 2. Plotting distance time graphs 3. Plotting velocity time graph		<ul style="list-style-type: none"> Critical thinking skills will be developed when students analyse the validity of news articles. Coordination, observation and problem solving skills will be imparted during hands-on activities on the playground. SDG- Students will understand the importance of speed limit and safety measures while driving on the road.
					1			
JUNE	5 th week 26 th to 30 th	2	Chapter 7: Motion	7.5 - Equations of motion	2	To create a picture book on Uniform circular motion.— Group Activity	Textual questions Numerical questions related to Equation of motion will be discussed and given as H.W	<ul style="list-style-type: none"> Group Activity inculcates the following skills : <ul style="list-style-type: none"> Communication Skills Critical Thinking Skills Creativity Skills Collaboration Skills. ICT Skills
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JULY	1 st week 1 st to 7 th	3		7.6 - Uniform circular motion and discussion of numerical. Exercise of the chapter will be discussed and extra questions will be given	2			

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MONTH	WEEKLY DATES	TOTAL NO. OF PERIODS	NAME OF THE TOPIC	SUB-TOPICS	NO. OF PERIODS REQUIRED	ACTIVITIES/ SMART CLASS MODULES	ASSIGNMENTS /EVALUATION	LEARNING OUTCOMES/ SUSTAINABLE DEVELOPMENT GOALS / SKILLS ASSESSED
JULY	2 nd week 10 th to 15 th	2		Exercise (Conti.....)	2			<ul style="list-style-type: none"> Leadership Skill Flexibility Initiative
JULY	3 rd week 17 th to 22 nd	3	Chapter-8 : Force and laws of motion	8.1 - Balanced and unbalanced forces 8.2 - First law of motion	1 2	SMARTCLASS Modules- Examples of Balanced and Unbalanced force. Hands on activity to understand Newton's first and second law of motion Activity: 1. flicking of coin placed on a playing card above a glass tumbler 2. Ball bounce experiment to understand Newton's first law of motion-any type of ball -- a basketball, tennis ball, bouncy ball – student will execute this activity to observe the different ways the object in motion reacts to outside forces.	Intext questions will be discussed and given as H.W.	The students will be able to: <ul style="list-style-type: none"> Demonstrate and experience first law of motion through activity- communication and critical thinking skills. Solve simple problems based on laws of motion- problem solving
JULY	4 th & 5 th week 24 th to 28 th , 31 st	3		8.3 - Inertia and mass 8.4 - Second law of motion	1 2			SDG - 1. Apply the scientific concept in daily life – Importance of use of safety belts in automobiles . 2. Relate Newton's law of motion in sports activities and physical development.

PERIODIC TEST – I -- 31st July, 2023
PORTION : CH – 7 MOTION (Till 7.4.2)

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MONTH	WEEKLY DATES	TOTAL NO. OF PERIODS	NAME OF THE TOPIC	TOPICS	NO. OF PERIODS REQUIRED	ACTIVITIES/ SMART CLASS MODULES	ASSIGNMENTS /EVALUATION	LEARNING OUTCOMES/ SUSTAINABLE DEVELOPMENT GOALS / SKILLS ASSESSED
AUG	1 st Week 1 st to 5 th	3	Chapter-8 : Force and laws of motion	8.4.1 - Mathematical formulation of second law of motion	3	Model Making: Create your own mini golf or Newton's cradle to understand Newton's laws of motion.	Numerical Questions related to the topic will be discussed and given as H.W.	The students will be able to make model to explore their creative skills and innovation.
	2 nd Week 7 th to 12 th	3	Chapter-8 : Force and laws of motion	8.5 - Third law of motion	3			
AUG	3 rd Week 14 th to 19 th	2	Chapter-8 : Force and laws of motion	Exercise of the chapter will be discussed	2	Worksheets will be given for practice.		Students will be able to apply their knowledge in solving numericals – Problem Solving Skills.
	4 th and 5 th Week 21 st to 26 th , 28 th , 29 th , 31 st	4	Chapter-8: Force and laws of motion	Case Based Questions and HOTS will be discussed from the chapter.	4			
SEP	1 st & 2 nd Week 1 st to 8 th	3	Chapter-9 : Gravitation	9.1 Gravitation	3	Activity to show that all falling objects are attracted by the same force of gravitation	Topic Based questions will be discussed.	SDG- Impact of changes in gravitational fields on global climate and their influence on natural events such as tides, volcanoes etc.

MONTH	WEEKLY DATES	TOTAL NO. OF PERIODS	NAME OF THE TOPIC	SUB-TOPICS	NO. OF PERIODS REQUIRED	ACTIVITIES/ SMART CLASS MODULES	ASSIGNMENTS /EVALUATION	LEARNING OUTCOMES/ SUSTAINABLE DEVELOPMENT GOALS / SKILLS ASSESSED
PERIODIC TEST – II -- 4 th September, 2023 PORTION : CH – 7 MOTION (FROM 7.5 ONWARDS) & CH 8 FORCE & LAWS OF MOTION (TILL 8.4.1)								
SEPT	3 rd week 11 th to 16 th	3	Chapter-9 : Gravitation	9.1.1 – Universal Law of gravitation 9.1.2 Importance of the Universal law of Gravitation	2	MODULE: - Applications of Universal law of Gravitation in day to day life.	Intext questions will be discussed.	The students will be able to: <ul style="list-style-type: none"> State and explain universal law of gravitation.
SEPT	4 th week 18 th to 23 rd	2	Chapter-7 Motion	REVISION	2	MODULES: i) Formula Chart ii) Concept Map	Worksheets and Sample papers will be discussed.	Students will be able to apply their knowledge in solving numericals – Problem Solving Skills.
SEPT	5 th Week 24 th to 30 th	2	Chapter-8: Force and laws of motion		2			

PORTION COMPLETION DATE : 21ST SEPTEMBER 2023
 EXAM DATE : 3RD OCTOBER, 2023
 HALF YEARLY EXAM : 25TH SEPT – 11TH OCTOBER 2023
 PORTION : CH 8, CH 9

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MONTH	WEEKLY DATES	TOTAL NO. OF PERIODS	NAME OF THE TOPIC	S -TOPICS	NO.OF PERIODS REQUIRED	ACTIVITIES/ SMART CLASS MODULES	ASSIGNMENTS /EVALUATION	LEARNING OUTCOMES/ SUSTAINABLE DEVELOPMENT GOALS / SKILLS ASSESSED
OCT	4 th & 5 th week 25 th to 28 th , 30 th and 31 st	3	Chapter-9 : Gravitation	9.2 - Free fall 9.2.1 -To calculate the value of g 9.2.2 -Motion of objects under influence of gravitational force of earth	1 1 1	Visit to Raman science centre to show free-fall. MODULE - 1. Gravitation 2. Body falling downwards 3. Free fall-what will fall faster?	Intext questions will be discussed.	The students will be able to: <ul style="list-style-type: none"> State and explain universal law of gravitation. Express Newton's law of gravitation in mathematical form. Understand the concept of free fall.
NOV	1 st Week 1 st to 4 th	2		9.3 – Mass 9.4 – Weight 9.4.1 - Weight of an object on the moon	1 1	Hands-on activity to measure weight and mass of an object using spring balance and a physical balance. MODULE : Differentiate between Mass and weight with examples.		Apply learning to hypothetical situations, such as, weight of an object at moon, weight of an object at equator and poles, possibility of life on other planets, etc.
NOV	2 nd Week 6 th to 9 th	2		9.5 Thrust and Pressure 9.5.1 - Pressure in fluids 9.5.2 – Buoyancy	1 1	Hands on Activity to understand the impact of Buoyant force to determine whether an object will sink or float in water.	Student will be given question HOTS on thrust and pressure like, Explain why a block of plastic released under water comes up to the Surface of water?	The students will be able to: 1. Perform and explain Archimedes principle- Communicative skills, observation skills, Critical thinking. 2. Apply the concept of buoyant force to everyday life situations.

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MONTH	WEEKLY DATES	TOTAL NO. OF PERIODS	NAME OF THE TOPIC	SUB-TOPICS	NO. OF PERIODS REQUIRED	ACTIVITIES/ SMART CLASS MODULES	ASSIGNMENTS /EVALUATION	LEARNING OUTCOMES/ SUSTAINABLE DEVELOPMENT GOALS / SKILLS ASSESSED
DIWALI VACATION : (10th Nov, 2023 –23rd Nov ,2023)								
NOV	4 th and 5 th Week 24 th , 28 th , 29 th and 30 th	4		9.5.3 - Why objects float or sink when placed on the surface of water 9.6 - Archimedes principle Numerical & Exercise	1 1 2	ACTIVITY: Verification of Archimedes principle will be done in the laboratory.	Textual questions will be discussed and given as H.W	Students will be able to observe and analyze Archimedes principle in the lab. -Critical thinking skills.
DEC	1 st & 2 nd week 1 st to 8 th	3	Chapter -10 : Work and Energy	10.1 – Work 10.1.1 - Not much work in spite of working hard 10.1.2 - Scientific conception of work 10.1.3 - work done by a constant force	1 1 1	Hands on activity to explain the concept of work MODULE - 1. Lifting-an example of work done	Intext questions will be discussed and extra numericals will be solved.	Students will be able to judge situations to identify where work is done according to scientific conception- Critical and Analytical Thinking Skills.
PERIODIC TEST – III -- 11th December, 2023 PORTION : CH – 9 Gravitation (Till 9.4.1)								
DEC	3 rd week 11 th to 16 th	3		10.2 – Energy 10.2.1 - Forms of energy 10.2.2 - Kinetic energy	1 1 1	Hands On Activity : To understand Kinetic Energy and Potential Energy – Model Making . Students will be asked to make a model showing transformation of energy.	Numerical question related to Kinetic Energy & Potential Energy will be discussed and given as H.W.	The students will be able to: <ul style="list-style-type: none"> List types of energy Give examples to explain Potential energy. Give examples to explain Kinetic energy. Exhibit critical thinking innovation and
DEC	4 th week 19 th to 23 rd	1		10.2.3 - Potential energy	1			

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DEC	5 th week 26 th to 30 th	2		10.2.4 - Potential energy of an object at a height 10.2.5 - Are various forms of energy interconvertible?	1 1	MODULE- 1.Mechanical energy 2.Potential energy		collaborative skills during model making.
JAN	1 st Week -1 st to 6 th	3		10.2.6 - Law of conservation of energy 10.3 - Rate of doing work Textual exercise will be discussed	1 2	MODULE: Explain energy transformations and the law of conservation of energy.	Textual questions will be discussed and given as H.W	SDG- Achieve full and productive work for all women and men including people with disabilities. Elimination or reduction of energy use can be simple as switching off appliances or preventing heat loss for building. The students will be able to: Explain how sound is generated, how it travels and how is it detected perceived and heard- Critical thinking skills, Analytical skills, Communicative skills.
JAN	2 nd Week 8 th to 13 th	2	Chapter-11 : Sound	11.1 - Production of sound 11.2 - Propagation of sound 11.2.1 - Sound waves are longitudinal waves	1 1	Hands on activity: 1. To infer and demonstrate that sound is produced due to vibrations of different Objects. 2. To determine the speed of the pulse produced due to the vibrations of slinky.	Student will Describe the reason for different speed of sound in different media and the practical applications of their difference.	The students will be able to: Distinguish between longitudinal and transverse waves – Critical thinking skills
JAN	3 rd Week 16 th to 20 th	3	Chapter-11 : Sound	11.2.2 - Characteristics of a sound wave 11.2.3 - Speed of sound in different media	1 2			
JAN	4 th & 5 th week 22 nd to 27 th , 29 th to 31 st	4	Chapter-11 : Sound	11.3 - Reflection of sound waves 11.3.1 – Echo 11.3.2 –Reverberation	2 1 1	Module on reflection of sound wave. Hands on activity Analyze the propagation of sound in a medium based		Establish the relationship between frequency,

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MONTH	WEEKLY DATES	TOTAL NO. OF PERIODS	NAME OF THE TOPIC	SUB TOPICS	NO. OF PERIODS REQUIRED	ACTIVITIES/ SMART CLASS MODULES	ASSIGNMENTS /EVALUATION	LEARNING OUTCOMES/ SUSTAINABLE DEVELOPMENT GOALS / SKILLS ASSESSED
FEB	1 st week 1 st to 3 rd	1	Chapter-11 : Sound	11.3.3 – Uses of Multiple Reflection of Sound	1	Hands on activity To examine the path of reflection of sound on different surfaces.	Intext questions will be discussed.	The students will be able to: Appreciate uses of multiple reflection of sound and cite examples on this.
FEB	2 nd week 6 th to 9 th	3	Chapter-11 : Sound	11.4 Range of hearing 11.5 Application of Ultrasound	1 2	Module on application of ultrasound. Hands on activity Classify audible range of sound of different organism into ultra and infrasound. (Based on data given)	Textual questions will be discussed and given as H.W.	The students will be able to: Explain the phenomenon of echo and application of ultrasonic sound in medicine and construction and others.
FEB	3 rd Week 12 th to 17 th	3	Chapter-11 : Sound	Exercise of chapter 11	3	Textual questions will be discussed and given as H.W.	SDG – Impact of noise pollution on psychological and physical well being. Importance of hearing aids for children with hearing impairment.	

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FEB	4 th Week & 5 th Week 20 th to 29 th							
PORTION (CH-7 MOTION, CH-8 FORCE AND LAWS OF MOTION, CH-9 GRAVITATION, CH-10 WORK AND ENERGY, CH -11 SOUND) PORTION COMPLETION DATE : 20 TH FEB 2024 ANNUAL EXAM : 2 ND MARCH – 14 TH MARCH 2024 EXAM DATE : 2 ND MARCH , 2024								
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Smt. Annapoorni Shastri
Director
Bharatiya Vidya Bhavan
Nagpur Kendra, Nagpur

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LIST OF EXPERIMENTS

STD.IX (PHYSICS)

2023-24

1. Determination of the density of solid (denser than water) by using a spring balance and a measuring cylinder.
2. Establishing the relation between the loss in weight of a solid when fully immersed in a) Tap water b) Strongly salty water with the weight of water displaced by it by taking at least two different solids.
3. Determination of the speed of a pulse propagated through a stretched string / slinky (helical spring).
4. Verification of the Laws of reflection of sound.

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BHAVAN'S BHAGWANDAS PUROHIT VIDYA MANDIR, NAGPUR
CURRICULUM PLAN
2023-24
SUBJECT:-PHYSICS
STD:- IX

SNO.	NAME OF THE TEACHER	BRANCH	PHONE NUMBER	SIGNATURE
1	SMT. SMITA RAIPURKAR	CIVIL LINES	8805452528	
2	SMT. MRUNMALINI BORKAR	CIVIL LINES	7756810820	
3	SMT. KRISHNA KANNAN	CIVIL LINES	9822843281	
4	SMT. SHILPI A DUTTA	CIVIL LINES	9225211250	
5	SHRI. RAVINDRA TADAS	SRIKRISHNA NAGAR	9503768434	
6	SMT. ARCHANA SARKAR	SRIKRISHNA NAGAR	9665096690	
7	SMT. MANISHA RATHKANTHIWAR	SRIKRISHNA NAGAR	9822737056	
8	SHRI. YOGIRAJ TARONE	SRIKRISHNA NAGAR	9503243949	
9	SHRI. SAMIR KHULE	ASHTI	8830732750	
10	SMT. ARORA KANIKA DARSHAN	ASHTI	9870138731	
11	MS. BHAGYASHREE WAKUDKAR	ASHTI	9167634978	
12	MS. MAMTA GORE	TRIMURTI NAGAR	8888848776	
13	SMT. NAYANA SOHOLKAR	TRIMURTI NAGAR	9922925970	
14	SMT. ASMITA DESHPANDE	TRIMURTI NAGAR	9096500331	
15	SMT. NUTAN SATPUTE	NTPC, MOUDA	9766572670	 8/5/2023
16	SMT. SHWETA PANDEY	KORADI	9860647327	
17	MS. SHIVANI YADAV	CHINCHBHUWAN	9518374869	

BHAVAN'S B.P.VIDYA MANDIR, NAGPUR**ANNEXURE-II****SESSION:2023-24****PERIODIC TEST-I****Std.: IX****EXAM DATE: 31-07-2023****Subject: Science**

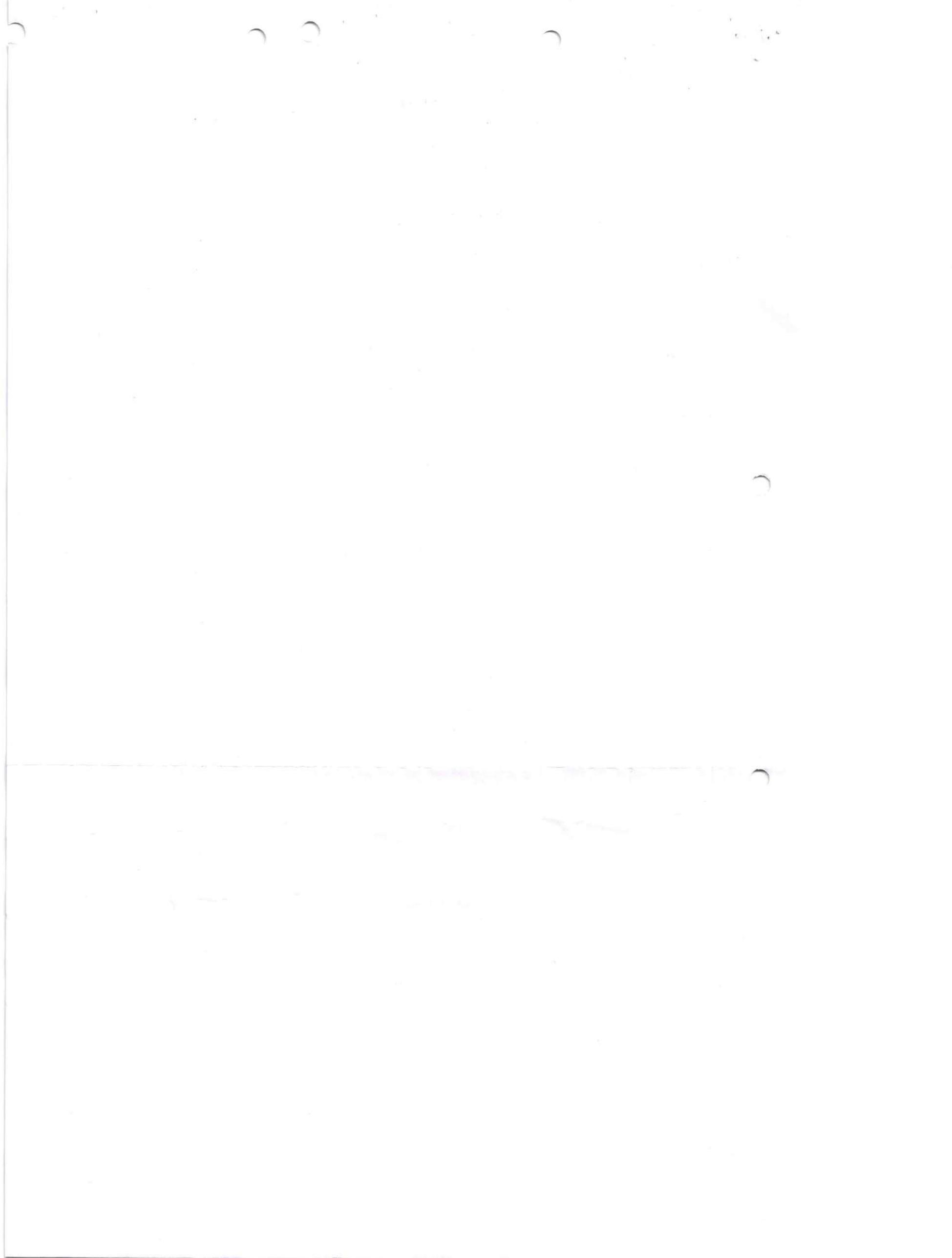
SUBJECT	CHAPTER	WEIGHTAGE	Que.nos	QUE. PAPER PATTERN
BIOLOGY	Ch.05 Fundamental Unit of Life	07	6,7,8,9,11	4Q X1M 1Q X3M
CHEMISTRY	Ch.01 Matter in Our Surroundings	06	3,4,5,10	3QX1M 1QX3M
PHYSICS	Ch.07 Motion (TILL 7.4.2)	07	1,2,12	2QX1M 1QX5M

PERIODIC TEST-II**Std.: IX****EXAM DATE: 04-09-2023****Subject: Science**

SUBJECT	CHAPTER	WEIGHTAGE	Que. nos	QUE. PAPER PATTERN
BIOLOGY	Ch.06 Tissues	06	7,8,9,11	3Q X1M 1Q X3M
CHEMISTRY	Ch.02 Is Matter Around us Pure? (Including 2.2.3 Till page 18)	07	5,6,12	2QX1M 1QX5M
PHYSICS	Ch.07 Motion (7.5 onwards) Ch.08 Force and Laws of Motion (Till 8.4.1)	07	1,2,3,4,10	4QX1M 1QX3M

PERIODIC TEST-III**Std.: IX****EXAM DATE: 11-12-2023****Subject: Science**

SUBJECT	CHAPTER	WEIGHTAGE	Que. nos	QUE. PAPER PATTERN
BIOLOGY	Ch.12 Improvement in Food Resources	07	8,9,12	2Q X1M 1Q X5M
CHEMISTRY	Ch.04 Structure of Atom -Till 4.5(including 4.5)	07	4,5,6,7,11	4QX1M 1QX3M
PHYSICS	Ch.9 Gravitation (Till 9.4.1)	06	1,2,3,10	3QX1M 1QX3M



HALF YEARLY EXAMINATION

Std.: IX

Portion Completion Date: 18-09-2023

EXAM DATE: 26-09-2023 to 11-10-2023

Subject: Science

SUBJECT	CHAPTER	WEIGHTAGE	QUE. NOS.	QUE. PAPER PATTERN
BIOLOGY	Ch.05 Fundamental Unit of Life	13	8,9,10,11 18 29 35(IC)	4Q X 1 M (MCQ) 1Q X 1M (AR) 1Q X 3M 1Q X 5M
	Ch.06 Tissues (Till Plant Tissues)	12	12,15,16 20 23 (IC),26 38	3Q X 1 M (MCQ) 1Q X 1M (AR) 2Q X 2M 1Q X 4M (CBQ)
CHEMISTRY	Ch.01 Matter in Our Surroundings	13	1, 2, 3, 17 21 28(IC) 37	3Q X 1 M (MCQ) 1Q X 1M (AR) 1Q X 2M 1Q X 3M 1Q X 4M (CBQ)
	Ch.02 Is Matter Around Us Pure?	12	4, 5, 6, 7 27 34 (IC)	4Q X 1 M (MCQ) 1Q X 3M 1Q X 5M
Physics	Ch.07 Motion	16	13 19 22,24 30,31(IC) 39	1Q X 1M 1Q X 1M (AR) 2Q X 2M 2Q X 3M 1Q X 4M (CBQ)
	Ch.08 Force and Laws of Motion	14	14 25 32,33 36(IC)	1Q X 1M 1Q X 2M 2Q X 3M 1Q X 5M



BHAVAN'S B.P. VIDYA MANDIR, NAGPUR
ANNEXURE II
SESSION-2023-24
STANDARD- IX
SCIENCE
HALF-YEARLY EXAMINATION
3RD OCTOBER 2023

SUBJECT	CHAPTER	WEIGHTAGE	QUESTION NUMBER AND PAPER PATTERN							TOTAL MARKS
			MCQ (1M)	AR (1M)	2M	3M	5M	CASE-STUDY (4M)		
PHYSICS	Ch.07 Motion Ch.09 Force and Laws of Motion	16M 14M	Q.13	Q.19	Q.22, 24	Q.30, 31(c)		Q.39	30M	
			Q.14		Q.25	Q.32, 33	Q.36 (c)			
			Q.1,2,3	Q.17	Q.21	Q.28 (c)		Q.37		
CHEMISTRY	Ch.01 Matter in Our Surroundings Ch.02 Is Matter Around Us Pure?	13M 12M	Q.4,5,6,7			Q.27	Q.34 (c)		25M	
			Q.8,9,10, 11	Q.18		Q.29	Q.35 (c)			
BIOLOGY	Ch.05 Fundamental Unit of Life Ch.06 Tissues (Till 6.2 Plant Tissues)	13M 12M	Q.12,15, 16	Q.20	Q.23 (c), 26			Q.38	25M	



ANNUAL EXAMINATION

Std.: IX

Portion Completion Date: 20-02-2024

EXAM DATE: 02-03-2024 to 15-03-2024

Subject: Science

SUBJECT	CHAPTER	WEIGHTAGE	QUE. NOS.	QUE. PAPER PATTERN
BIOLOGY	Ch.05 Fundamental Unit of Life	10	8,9,10,11 26 38	4Q X 1M (MCQ) 1Q X 2M 1Q X 4M (CBQ)
	Ch.06 Tissues	12	12,15,16 18 29 35 (IC)	3Q X 1M (MCQ) 1Q X 1M (AR) 1Q X 3M 1Q X 5M
	Ch.15 Improvement in Food Resources	06	20 23 (IC) 30	1Q X 1M (AR) 1Q X 2M 1Q X 3M
CHEMISTRY	Ch.01 Matter in Our Surroundings	05	1, 2 27	2Q X 1M (MCQ) 1Q X 3 M
	Ch.02 Is Matter Around Us Pure?	05	3 17 28(IC)	1Q X 1M (MCQ) 1Q X 1M (AR) 1Q X 3M
	Ch.03 Atoms and Molecules	07	4,5 34(IC)	2Q X 1M (MCQ) 1Q X 5M
	Ch.4 Structure of Atom	08	6,7 21 37	2Q X 1M (MCQ) 1Q X 2M 1Q X 4M (CBQ)
Physics	Ch.07 Motion	05	13 19 31	1Q X 1M 1Q X 1M(AR) 1Q X 3M
	Ch.08 Force and Laws of Motion	05	22 32	1Q X 2M 1Q X 3M
	Ch.09 Gravitation	05	24 33(IC)	1Q X 2M 1Q X 3M
	Ch.10 Work and Energy	05	14 39	1Q X 1M 1Q X 4M (CBQ)
	Ch.11 Sound	07	25 36(IC)	1Q X 2M 1Q X 5M



BHAVAN'S B.P. VIDYA MANDIR, NAGPUR
ANNEXURE II
SESSION-2023-24
STANDARD- IX
SCIENCE
ANNUAL EXAMINATION
2ND MARCH 2024

SUBJECT	CHAPTER	WEIGHTAGE	QUESTION NUMBER AND PAPER PATTERN							TOTAL MARKS
			MCCQ (1M)	AR (1M)	2M	3M	5M	CASE-STUDY (4M)		
PHYSICS	Ch.07 Motion	5M	Q.13	Q.19		Q.31				27M
	Ch.08 Force and Laws of Motion	5M			Q.22	Q.32				
	Ch.9 Gravitation	5M			Q.24	Q.33 (c)				
	Ch. 10 Work and Energy	5M	Q.14					Q.39		
	Ch.11 Sound	7M			Q.25		Q.36(c)			
CHEMISTRY	Ch.01 Matter in Our Surroundings	5M	Q.1,2			Q.27				25M
	Ch.02 Is Matter Around Us Pure?	5M	Q.3	Q.17		Q.28 (c)				
	Ch. 03 Atoms and Molecules	7M	Q.4,5				Q.34 (c)			
	Ch.04 Structure of Atom	8M	Q.6,7		Q.21			Q.37		
	Ch.05 The Fundamental Unit of Life	10M	Q.8,9,10, 11		Q.26			Q.38		
BIOLOGY	Ch.06 Tissues	12M	Q.12,15, 16	Q.18		Q.29	Q.35			28M
	Ch.12 Improvement in Food Resources	6M		Q.20	Q.23 (c)	Q.30				





Subject: PHYSICS (Science)

Class: IX

Topic: Gravitation

Sub-topic: To find the weight of the student on different planets.

Nature of Task: Individual

Task: Post content

Skills Assessed: Numerical Analysis, Analytical and Thinking skill

Learning Objectives: Students will be able to:

- Find the value of mass and radius of planet.
- To learn about the acceleration due to gravity on different planets.
- To learn about astronomical data of different planets
- To develop interest in Astronomy

Procedure: _____

- Teacher will brief the student about the activity.
- Students will choose a different five planets of their interest
- Students will find out the radius & mass of different planets and will calculate the acceleration due to gravity of different planets
- Students will calculate their weight on different planets by using calculated acceleration due to gravity.
- Students will appreciate the difference in their weight on different planets.



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Art - Integrated Activity/Project/Subject Enrichment (2023-2024)

Assessment Criteria: Students will be judged based on the following criterion:

- 1) Understanding
- 2) Thinking
- 3) Analysis
- 4) Reasoning

Duration of the Task: 15 days

Follow up / Feedback: _____

- Teacher will brief the student about the activity
- Teacher will solve all queries of the students regarding activity
- Teacher will also guide the students to do calculations, to write procedure, to analyse the result and to make a complete project report.

Assessment Rubric: _____

- Understanding : 01 Mark
Thinking : 01 Mark
Analysis : 01 Mark
Project Report : 02 Mark

Subject Coordinator's: Name and Signature

CL : _____ SKN : _____

ASHTI: Bhagyadree Wakudkar TMN: Mamta Gose Mamta 8/5/23

KORADI: _____ CHB: Mouda : Nutan S. 18/5/23

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(SMT. NIRUPAMA PADMARAJ)
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Vijaya
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BVM, ASHTI

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(SMT. PARWATI GUJYER)
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Raj
(SMT. RAJ Srinivasan)
PRINCIPAL
BVM, CHB



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Art - Integrated Activity/Project/Subject Enrichment (2023-2024)Subject: SCIENCEClass: IXTopic: Subject EnrichmentSub-topic: Science Practical (Experiments in Science)Nature of Task: IndividualTask: Post ContentSkills Assessed: Observation, Analysis, Reasoning, Understanding, DrawingLearning Objectives: ① To enable the students to understand various concepts in science through hands on activities.② To make the students aware about the experimental setup required for the process.③ To make the students realise the principle behind every experiment performed.

Procedure: _____

① Teacher will demonstrate the experiment by making the experimental setup.② She will ask the students to observe the results and note them in their observation book.③ Students will perform the experiments and note down the observation.④ Draw diagrams & graphs (if any)⑤ Draw inference and note it down in their practical record.



Art - Integrated Activity/Project/Subject Enrichment (2023-2024)

- Assessment Criteria: ① Understanding
② Reasoning
③ Regularity
④ Neatness

Duration of the Task: 45 min.

- Follow up / Feedback: ① Teacher will take rounds and will guide the students if they face any difficulty in doing the experiments
② Teacher will also guide them in writing the procedure, observations and inference, if they need any help.

Assessment Rubric:

- ① Regularity - 02
② Completion - 02
③ Neatness - 01
05

Subject Coordinator's: Name and Signature

CL : _____

SKN : _____

ASHTI: _____

TMN : _____

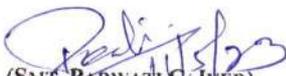
KORADI: _____

CHB: _____

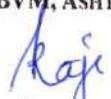

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Portfolio (Notebook)



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Art - Integrated Activity/Project/Subject Enrichment (2023-2024)

Subject: Science

Class: IX

Topic: Portfolio

Sub-topic: Notebook

Nature of Task: Individual

Task: Post content

Skills Assessed: Regularity, Punctuality and Neatness

Learning Objectives: Students will learn to -

- Highlight their best work.
- Display their skills and potentials in writing.
- Complete their work on regular basis with neatness and punctuality.
- Determine their learning standard and other requirements for their grades.

Procedure: Students will be asked to -

- Write intext questions, NCERT questions and extra questions in Portfolio.
- They will be asked to draw neat and well labelled diagrams.
- Regular and timely submissions.
- Do the corrections wherever asked.



Bhavan's B.P. Vidya Mandir, Nagpur

Art – Integrated Activity/Project/Subject Enrichment (2023-2024)

Assessment Criteria: Regularity, Punctuality, Neatness.
Completion of work.

Duration of the Task: whole session

Follow up / Feedback: Teachers will guide the students in case of incorrect answers and improper drawings, labellings.

Assessment Rubric: Regularity - 02
Completion - 02
Neatness - 01
05 Total

Subject Coordinator's: Name and Signature

CL : Mrs. Shilpi A. Dutta SKN : Archana S. Barlas
ASHTI: Mrs. Bhagyashree Wastudkar TMN : Mamta G. Mambar
KORADI: Shweta Pandey CHB: Shivani Y. Patil
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