



BHAVAN'S
BHAGWANDAS PUROHIT VIDYA MANDIR, NAGPUR
CURRICULUM PLAN(2023-24)

STD: VIII SUBJECT : PHYSICS

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|---|---|--|---|--|--|---|--|
| Smt. AnjuBhutani Principal Bhavan's B. P. VidyaMandir, Civil Lines,Nagpur | Smt. Nirupama Padmaraj Principal Bhavan's B. P. Vidya Mandir, Srikrishna Nagar, Nagpur | Smt. VandanaBisen Principal Bhavan's B. P. Vidya Mandir, Ashti, Nagpur | Smt. ParwatiG.Iyer Principal Bhavan's B. P. Vidya Mandir, Trimurti Nagar, Nagpur | Ms. Sarbani Bose Principal Bhavan's B. P. Vidya Mandir, Koradi, Nagpur | Smt.RajSrinivasan Principal Bhavan's B. P. VidyaMandir, Chinchhavan, Nagpur | Smt. Janaki Mani Principal Bhavan's NTPC VidyaMandir-Mouda | Ms. Kmti Mishra Principal Bhavan's Lloyds VidyaNiketan, Wardha |
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Smt. Annapoorni Shastri
Director
Bharatiya Vidya Bhavan
Nagpur Kendra.
Nagpur

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BHAVAN'S B.P. VIDYA MANDIR, NAGPUR
C.U.K.,CULUM PLAN FOR THE SESSION: 2023 - 2024
SUBJECT :- PHYSICS (VIII)

| MONTH | WEEK | NO. OF PERIODS | TOPICS AND SUB TOPICS | EXPERIMENTS / ACTIVITIES/LEARNING STYLE | SMART CLASS MODULE | LEARNING OUTCOME/SUSTAINABLE DEVELOPMENT GOALS/SKILL ASSESSED | H.W / ASSIGNMENTS /EVALUATIONS |
|--------|---------------------|----------------|---|--|---|--|---|
| Jun-23 | 20 - 24 June | 2 | CHAPTER - 8. FORCE AND PRESSURE 8.1 Force - A Push or Pull 8.2 Forces are due to an interaction | 1. An activity to show the attraction and repulsion between two magnets. Learning Style -Visual | 1. FORCE - 2. - Force are due to interaction 3. Force can change the state of motion (a) Effects of force (b) Force & state of motion | 1. Introduction 2. 3-D | Textual and few extra questions will be discussed and given as home work. |
| | 26 - 27 | 1 | 8.3 Exploring Forces 8.4 A Force can change the state of motion 8.5 Force can change the shape of an object | 2. An activity to show the effects of forces. Experiential Learning - Tug of war | 4. Contact Force (a) Different types of forces (b) Contact Forces. 5. Non-Contact Force | Students will be able to:- 1. Understand the concept of Force and its effects. Skill Assessed -Questioning Skills | Textual and few extra questions will be discussed and given as home work. |
| Jul-23 | 29-30 & 1st July | 2 | 8.6 Contact Forces 8.7 Non-Contact Forces | | | | |
| | 3- 8 July | 2 | 8.8 Pressure 8.9 Pressure exerted by liquids and gases | 3. An activity to demonstrate that a liquid exerts pressure on the walls of the container. Learning Style -Logical and Mathematical | 5. Non-Contact Force 6. Pressure 7. Pressure exerted by liquids and gases | Skill Assessed - Critical Thinking Problem Solving | Textual and few extra questions will be discussed and given as home work. |
| | 10 - 15 July | 2 | 8.10 Atmospheric pressure (Question and Answers) | | | | |
| Jul-23 | 17-22 July | 2 | CHAPTER - 9 FRICTION 9.1 Force of friction 9.2 Factors affecting Friction | 1. An activity to demonstrate that friction opposes relative friction between books (i.e object) and the table (i.e. contact area) 2. An activity to demonstrate that an object can cover different distances on different directions 3. An activity to show that the motion of object on rollers, to explain the concept of rolling friction. | | | |
| | 24 - 28 & 31st July | 2 | 9.3 Friction - A Necessary evil | 3. An activity to show that the motion of object on rollers, to explain the concept of rolling friction. Learning style -Visual and Kinesthetic Experiential Learning - Rubbing hand on sand | 9. Force of Friction a. Friction (1) | Students will be able to:- 1. Develop scientific knowledge about Friction and factors affecting friction. 2. Apply the concept in day to day experience. Skill Assessed -Reasoning Skills, Creative thinking | Textual and few extra questions will be discussed and given as home work. |

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| MONTH | WEEK | NO. OF PERIODS | TOPICS AND SUB TOPICS | EXPERIMENTS / ACTIVITIES/LEARNING STYLE | SMART CLASS MODULE | LEARNING OUTCOME/SUSTAINABLE DEVELOPMENT GOALS/SKILL ASSESSED | H.W / ASSIGNMENTS /EVALUATIONS | |
|--|-----------------------------------|--|--|--|---|---|--|---|
| Aug-23 | 1- 5 Aug | 2 | 9.4 Increasing and Reducing Friction 9.5 Wheels reduce friction | | 10. Factors affecting Friction 11. Friction - A Necessary evil 12. Increasing and reducing friction | a. Friction and Smoothness of a surface b. Static and sliding friction Advantages and Disadvantages of friction and lubrication. Ways of reducing friction (1) | SDGs-Reduction of consumption of electrical energy by time to time checking of the motors in fans,mixer grinder etc. | Textual and few extra questions will be discussed and given as home work. |
| | | | | | | | | |
| PERIODIC TEST 1 - 17th August 2023 : Portion - Chapter-8 Force and Pressure | | | | | | | | |
| Sep-23 | 18 - 19 Aug | 1 | 9.6 Fluid friction (Question and Answers) | | 13. Wheels reduce friction | Students will be able to: 1. Understand how sound is produced by vibrating bodies. 2. Know about measures to be taken to reduce noise pollution. | Textual and few extra questions will be discussed and given as home work. | |
| | | | | | | | | 21 - 26 Aug |
| | 28 - 29,31st Aug & 1st & 2nd Sept | 2 | 10.3 Sound needs a medium for propagation. 10.4 We hear through our ears. | 3. An activity to explain how sound travels through solids, by using a meter scale or a toy telephone etc. Experiential Learning - Make a straw kazoo | 20. Sound needs a medium for propagation. 21. We hear sounds through our ears. | 3. Appreciate how human ears detect sound waves Skills Assesed- Computation, Observation skills, Questioning, Analysing | | |
| | | | | | | | | 4 - 9 sept |
| 11 - 16 sept | 2 | 10.7 Noise and music 10.8 Noise and pollution | Learning Style- Visual, Rhythmic, Kinesthetic | | 4. Aware about ill effects of noise pollution. 5. Know about measures to be taken to reduce noise pollution. Skills Assesed-Civic Literacy/ethics | | | |
| 18 - 23 Sept | 2 | Question and Answers Revision | | | | | | |

| MONTH | WEEK | NO. OF PERIODS | TOPICS AND SUB TOPICS | EXPERIMENTS / ACTIVITIES/LEARNING STYLE | SMART CLASS M...JLE | LEARNING OUTCOME/SUSTAINABLE DEVELOPMENT GOALS/SKILL ASSESSED | H.W / ASSIGNMENTS /EVALUATIONS | |
|---|-------------|----------------|--|---|---|---|---|---|
| PORTION COMPLETION FOR HALF YEARLY BY 18th SEP 2023 | | | | | | | | |
| HALF YEARLY EXAM - SCIENCE - 29th September 2023 | | | | | | | | |
| PORTION FOR HALF YEARLY EXAM : Chapter- 8, 9 & 10. | | | | | | | | |
| Oct-23 | 12 -14 Oct | 1 | CHAPTER - 12 SOME NATURAL PHENOMENA | 12.1 Lightning | 1. An activity to demonstrate how transfer of charge takes place using an electroscope. | 14. Types of charges and their interaction (1) | 1. To acquire knowledge of physical environment like forces of nature and simple natural phenomena. | Textual and few extra questions will be discussed and given as home work. |
| | | | | | | | | |
| | 25 - 28 Oct | 1 | 12.5 Story of Lightning | Skills Assesed- Communication, Critical, Observation. | | | | |
| | | | | | 30 - 31st Oct | 1 | 12.6 Lightening Safety | |
| | 23-Nov | 1 - 4 Nov | 2 | 12.7 Earthquakes | | | | |
| | | | | | 6 - 9 Nov | 2 | Questions and Answers of Ch.12 | |
| Diwali Vacation (10th Nov to 23rd Nov 2023) | | | | | | | | |
| 24 - 30 Nov | 2 | 2 | CHAPTER -11 CHEMICAL EFFECTS OF ELECTRIC CURRENT 11.1 Do liquids conduct electricity? (Activity - 11.3) | 1. A demonstration to test the conduction of electricity in limejuice / vinegar. Experimental learning How to connect multiple LEDs with 9v battery, switch in series. | 24. Do liquids conduct electricity? (1) | | | |

| MONTH | WEEK | NO. OF PERIODS | TOPICS AND SUB TOPICS | EXPERIMENTS / ACTIVITIES/LEARNING STYLE | SMART CLASS MODULE | LEARNING OUTCOME/SUSTAINABLE DEVELOPMENT GOALS/SKILL ASSESSED | H.W / ASSIGNMENTS /EVALUATIONS |
|--------|---------------|----------------|---|---|---|---|---|
| Dec-23 | 1 - 2 Dec | 1 | Activity - 11.4 | 2. An activity to demonstrate the passage of current through water. 3. A demonstration to show a simple circuit used in the method of electroplating | 25. Chemical effects of electric current | | |
| | 4 - 9 Dec | 2 | 11.2 Chemical effects of electric current | Learning Style- Kinesthetic, Visual | | 2. Study the applications of electroplating and its advantages. | Textual and few extra questions will be discussed and given as home work. |
| | 11 - 16th Dec | 2 | 11.3 Electroplating Answers Question & | | 26. Electroplating | Skills Assessed- Observation, Analytical, Diagrammatical. | |
| | 18 - 23rd Dec | 1 | CHAPTER- 13 LIGHT 13.1 What makes things visible? | 1. A demonstration to show that formation of images in plane mirrors when kept at right angles to each other | 27. What makes things visible? a. Light | Students will be able to: 1. Understand the concept of Reflection. 2. Differentiate types of reflection and how multiple images are formed. | |
| Jan-24 | 26-30th Dec | 1 | 13.2 Laws of reflection | | 28. Laws of reflection a. Laws of reflection b. Reflection of light at a smooth surface | | |
| | 1 - 6 Jan | 2 | 13.3 Regular and diffused reflection 13.4 Reflected light can be reflected again | Experiential Learning - Make a Kaleidoscope Learning Style- Kinesthetic, Visual | | Hands on learning skills .It will be analytical and observational. Thinking skills. | Textual and few extra questions will be discussed and given as home work. |
| | 8 - 13 Jan | 2 | 13.5 Multiple Images | | 30. Multiple Images (1) 31. Sunlight - White or Coloured? | | |
| | 16 - 20 Jan | 1 | 13.6 Sunlight - White or Coloured ? | | a. Dispersion of white light | 3. Relate the concept of dispersion and its correlations with natural phenomena (Rainbow) | |

PERIODIC TEST - 2 - 16th Jan 2023 : Portion Ch- 12 & 13

| MONTH | WEEK | NO. OF PERIODS | TOPICS AND SUB TOPICS | EXPERIMENTS / ACTIVITIES/LEARNING STYLE | SMART CLASS MODULE | LEARNING OUTCOME/SUSTAINABLE DEVELOPMENT GOALS/SKILL ASSESSED | H.W / ASSIGNMENTS /EVALUATIONS |
|---|----------------|----------------|--|---|---|---|---|
| Jan-24 | 22 - 27 | 2 | 13.7 What is inside our eyes ? | | 32. What is inside our eyes? | Students will be able to: 4. Take care of their eyes. 5. To make students aware about eye health. | Textual and few extra questions will be discussed and given as home work. |
| | 29 - 31st | 1 | 13.8 Care of Eyes | | a. The Eye b. How does the human eye work? | | |
| Feb-24 | 1st - 3th Feb | 1 | 13.9 Visually challenged persons can read and write | | | | |
| | 5st - 10th Feb | 2 | 13.10 What is the Braille System (Question & Answer) | | | SDG- Social responsibility helping visually challenged person, Eye donation, | |
| Mar-24 | 12 - 24th Feb | 2 | | | | | |
| | | | | | | | |
| REVISION | | | | | | | |
| PORTION COMPLETION FOR ANNUAL EXAM BY 20th FEB 23. | | | | | | | |
| PORTION FOR ANNUAL EXAM CH- 11 , 12 , 13 & 30% OF TERM- I | | | | | | | |
| ANNUAL EXAMINATION (2rd Mar to 16th Mar 2023) (SCIENCE EXAM 05th MARCH 2023) | | | | | | | |

| | | | | | | | |
|--|---|--|---|---|--|---|--|
| Smt. Anuja Bhutani Principal Bhawan's B.P. Vidya Mandali, Civil Lines, Nagpur | Smt. Nishuparna Padmaraj Principal Bhawan's B.P. Vidya Mandali, Sukleshwar Nagar, Nagpur | Smt. Vandana Bisen Principal Bhawan's B.P. Vidya Mandali, Ashi, Nagpur | Smt. Parvati G. Jyer Principal Bhawan's B.P. Vidya Mandali, Taimusti Nagar, Nagpur | Ms. Sakshari Bose Principal Bhawan's B.P. Vidya Mandali, Keradi, Nagpur | Smt. Raji Srivastava Principal Bhawan's B.P. Vidya Mandali, Chitrakawan, Nagpur | Smt. Tanjali Mawli Principal Bhawan's NTPC Vidya Mandali, Monda | Ms. Kirti Mishra Principal Bhawan's Jyots Vidya Niketan Wardha |
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Smt. Anju Bhutani
Principal
Bhavan's B. P. Vidya
Mandir,
Civil lines, Nagpur

Smt. Nirupama Padmaraj
Principal
Bhavan's B. P. Vidya Mandir,
Srikrishna Nagar, Nagpur

Smt. Vandana Bisen
Principal
Bhavan's B. P. Vidya Mandir,
Ashti, Nagpur

Smt. Parwati Iyer
Principal
Bhavan's B. P. Vidya Mandir,
Trimurti Nagar, Nagpur

Ms. Sarbani Bose
Principal
Bhavan's B. P. Vidya Mandir,
Koradi, Nagpur

Smt. Janaki Mani
Principal
Bhavan's NTPC Vidya
Mandir Mouda

Ms. Kirti Mishra
Principal
Bhavan's Loyds Vidya
Niketan, Wardha

Phap's

Smt. Annapoorni Shastri
Director
Bharatiya Vidya Bhavan Nagpur Kendra.

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TERM II EXAM (2023-2024)

| SUBJECT | PORTION | MARKS |
|-----------|--|----------------|
| PHYSICS | CHAPTER-8 FORCE AND PRESSURE 8.8,9,8.10 CHAPTER-9 FRICTION 9.4,9.5,9.6 CHAPTER-10 SOUND 10.5 CHAPTER-11 CHEMICAL EFFECTS OF ELECTRIC CURRENT CHAPTER-12 SOME NATURAL PHENOMENON CHAPTER-13 LIGHT | 30(2+2+4+7+7) |
| CHEMISTRY | CHAPTER-3 COAL AND PETROLEUM 5.2,5.3,5.4 CHAPTER-4 COMBUSTION AND FLAME | 18(6+12) |
| BIOLOGY | CHAPTER-1 CROP PRODUCTION AND MANAGEMENT (1.5) CHAPTER-2 MICROORGANISMS: FRIEND AND FOE (2.6 & 2.7) CHAPTER-5 CONSERVATION OF PLANTS AND ANIMALS CHAPTER-6 REPRODUCTION IN ANIMALS CHAPTER-7 REACHING THE AGE OF ADOLESCENCE | 32(3+3+5+12+9) |

BLUE PRINT FOR PERIODIC TEST-1

| TOTAL MARKS(20M) | SUBJECTS PORTION | OBJECTIVE(5M) | 1M | 2M | 3M | 5M |
|------------------|------------------|--------------------|----------|-----------------|----|-----------|
| 8M | PHYSICS | Q1, Q2, Q3 (CH-11) | Q6(CH-8) | Q8(CH-8) | - | - |
| 4M | CHEMISTRY | Q4(CH-3) | - | Q9(CH-3) | - | - |
| 8M | BIOLOGY | Q5(CH-1) | Q7(CH-1) | - | - | Q10(CH-1) |
| TOTAL | SUBJECTS | OBJECTIVE(5M) | 1M | 2M | 3M | 5M |
| | | | | SUBJECTIVE(15M) | | |

BLUE PRINT FOR PERIODIC TEST II

| TOTAL MARKS(20M) | SUBJECTS PORTION | OBJECTIVE(5M) | 1M | 2M | 3M | 5M |
|------------------|------------------|-----------------|-----------|-----------------|-----------|-----------------|
| 8M | PHYSICS | Q1, Q2, (CH-11) | Q3(CH-12) | Q6 (CH-11) | Q8(CH-12) | - |
| 4M | CHEMISTRY | Q4(CH-4) | - | Q9(CH-4) | - | - |
| 8M | BIOLOGY | Q5(CH-6) | Q7(CH-6) | - | - | Q10 (CH-5) |
| | | | | SUBJECTIVE(15M) | | |
| | | | | | | 6(Till page 70) |

BHAVAN'S B.P. VIDYA MANDIR, NAGPUR**2023-2024****EXAMWISE PORTION DETAILS****SCIENCE-VIII****PERIODIC TEST -I**

| SUBJECT | PORTION | MARKS |
|-----------|--|-------|
| PHYSICS | CHAPTER-8 FORCE AND PRESSURE | 08 |
| CHEMISTRY | CHAPTER-3 COAL AND PETROLEUM | 04 |
| BIOLOGY | CHAPTER-1 CROP PRODUCTION AND MANAGEMENT | 08 |

TERM I

| SUBJECT | PORTION | MARKS |
|-----------|--|-------------|
| PHYSICS | CHAPTER-8 FORCE AND PRESSURE CHAPTER-9 FRICTION CHAPTER-9 SOUND | 30(12+7+11) |
| CHEMISTRY | CHAPTER-3 COAL AND PETROLEUM | 18 |
| BIOLOGY | CHAPTER-1 CROP PRODUCTION AND MANAGEMENT CHAPTER-2 MICROORGANISMS: FRIEND AND FOE | 32(16+16) |

PERIODIC TEST -II

| SUBJECT | PORTION | MARKS |
|-----------|--|-----------|
| PHYSICS | CHAPTER-1 CHEMICAL EFFECTS OF ELECTRIC CURRENT CHAPTER-12 SOME NATURAL PHENOMENON | 08(4+4) |
| CHEMISTRY | CHAPTER-4 COMBUSTION AND FLAME (4.1,4.2,4.3) | 04(2+1+1) |
| BIOLOGY | CHAPTER-5 CONSERVATION OF PLANTS AND ANIMALS CHAPTER-6 REPRODUCTION IN ANIMALS {Till page 70 purple box, (Development of Embryo not included)} | 08(5+3) |



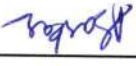
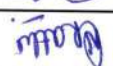
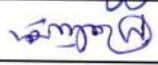
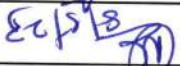
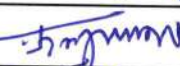

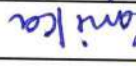





BLUE PRINT FOR TERM I EXAMINATION

| SUBJECT | PORTION | CHAPTER WISE WEIGHTAGE | TYPES OF QUESTIONS | | | | |
|-------------------|-------------------------------------|------------------------------|----------------------|---------------|----------------------|--------------|------|
| | | | OBJECTIVE | SUBJECTIVE | | | |
| | | | 1M | 2M | 3M | 5M | |
| PHYSICS (30 M) | Ch-8 Force and Pressure | 12 | Q.1, Q.2 | Q.16 | Q.26 | Q.36 | |
| | Ch-9 Friction | 07 | Q.3 Q.4 Q.5 | Q.17 Q.18 | | | |
| | Ch-10 Sound | 11 | Q.6 | Q.19, Q.20 | Q.27 Q.28 | | |
| | CHEMISTRY (18 M) | Ch 3 - Coal and Petroleum | 18 | Q.7, Q.8, Q.9 | Q.21 Q.22 | Q.29 Q.30 | Q.37 |
| BIOLOGY (32 M) | Ch-1 Crop Production and Management | 16 | Q.10, Q.11, Q.12 | Q.23 | Q.31 Q.32 | Q.38 | |
| | Ch-2 Microorganisms: Friend and Foe | 16 | Q.13 Q.14 Q.15 | Q.24, Q.25 | Q.33 Q.34 Q.35 | | |
| TOTAL | | 80 | 15 | 20 | 30 | 15 | |

BLUE PRINT FOR TERM II EXAMINATION

| SUBJECT | PORTION | CHAPTERWISE WEIGHTAGE | CHAPTERWISE WEIGHTAGE | | | |
|---------------------|---|-----------------------|-----------------------|------|------|------|
| | | | 1M | 2M | 3M | 5M |
| PHYSICS (30 M) | Ch-8 Force and Pressure (8.8) | 02 | 0.16 | | | |
| | Ch-9 Friction (9.4,9.5) | 02 | 0.17 | | | |
| | Ch-10 Sound (10.5, 10.6) | 04 | 0.1, 0.2 | 0.18 | | |
| | Ch-11 Chemical effects of Electric Current | 08 | 0.19 | 0.26 | 0.27 | |
| | Ch-12 Some Natural Phenomena | 07 | 0.3, 0.4 | | | 0.36 |
| | Ch-13 Light | 07 | 0.5, 0.6 | 0.20 | 0.28 | |
| | Ch-3 Coal and Petroleum | 05 | 0.7 | | | |
| | Ch-4 Combustion and Flame | 13 | 0.8 | 0.9 | | 0.29 |
| | | | | 0.30 | | 0.37 |
| | | | | | | |
| CHEMISTRY (18 M) | Ch-3 Coal and Petroleum | 05 | 0.7 | | | |
| | Ch-4 Combustion and Flame | 13 | 0.8 | 0.9 | | 0.29 |
| | Ch-1 Crop Production and Management (1.5) | 03 | 0.10 | 0.23 | | |
| | Ch-2 Microorganisms: Friend and Foe (2.6,2.7) | 03 | 0.11 | 0.24 | | |
| | Ch-5 Conservation of Plants and Animals | 05 | 0.12 | 0.31 | | |
| | Ch-6 Reproduction in animals | 12 | 0.14 | 0.32 | 0.38 | |
| | Ch-7 Reaching the age of Adolescence | 09 | 0.15 | 0.25 | 0.34 | 0.35 |
| BIOLOGY (32 M) | TOTAL | 80 | 15 | 20 | 30 | 15 |

BHAVAN'S B.P. VIDYA MANDIR, NAGPUR
SESSION: 2023-24
SUBJECT- PHYSICS
CLASS: VIII

| SR.NO. | NAME OF TEACHER | BRANCH | CONTACT NO. | SIGNATURE |
|--------|---------------------------|------------------|-------------|---|
| 1 | Mrs. Asha Anasane | CIVIL LINES | 9975017138 |  |
| 2 | Mrs. Shilpi Dutta | CIVIL LINES | 9970829031 |  |
| 3 | Mr. Yogiraj Tarone | SRIKRISHNA NAGAR | 9503243949 | |
| 4 | Mrs. Archana Sarkar | SRIKRISHNA NAGAR | 9665096690 |  |
| 5 | Mrs. Nishisha Rathi | SRIKRISHNA NAGAR | 8999609936 |  |
| 6 | Mrs. Manisha Rathkantiwar | SRIKRISHNA NAGAR | 9822737056 |  |
| 7 | Mrs. Nayana Sohalkar | TRIMURTI NAGAR | 9922925970 |  |
| 8 | Mrs. Mamta Gore | TRIMURTI NAGAR | 8888848776 |  |
| 9 | Mrs. Bhagyshree Wakudkar | ASHTI | 9167634978 |  |
| 10 | Mrs. Kanika Arora | ASHTI | 9870138731 |  |
| 11 | Mr. Ankush Bhadange | KORADI | 8668240931 |  |
| 12 | Smt. Shweta Pandey | KORADI | 9860647327 |  |
| 13 | Smt. Samreena Afroz | KORADI | 8767683868 |  |
| 13 | Mrs. Nutan Satpute | MOUDA | 9657822671 |  |
| 14 | Ms. Shivani Yadav | CHINCHBUHUVAN | 9518374869 |  |



Subject: Science (Physics) Class: VIII

Topic: Pressure

Sub-topic: Factors affecting Pressure

Nature of Task: Post Content (Individual)

Task: Calculating Pressure exerted by given objects.

Skills Assessed: Computation, Reasoning skills.

Learning Objectives: Students will be able to →

- Relate the relation between pressure and force and pressure and area.
- Calculate the amount of pressure for given area.
-

Procedure: Students will be guided to find the pressure exerted by -

- (i) their own body on the surface in standing position
- (ii) Duster lying on the table.

Students will find the area of their feet using a graph paper and force will be calculated using $W = mg$.

Using the formula $P = \frac{F}{A}$ pressure will be calculated for the duster and their own body.



Bhavan's B.P. Vidya Mandir, Nagpur

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

Assessment Criteria: Computation, Analysing, Drawing

Duration of the Task: One Week

Follow up / Feedback: Students those who could not calculate the area, or force will be guided again and will be asked to complete the activity.

Assessment Rubric: Area Calculation - 3m
Force Calculation - 3m
Pressure Calculation - 4m
Total - 10m

Subject Coordinator's: Name and Signature

CL :

SKN :

ASHTI: Kanika Asora Kanika

TMN: Mamta G. Mamta G.

KORADI: Ankush B. Iyer

CHB: Shivani Yadav Shivani

Mouda: Nutan S. Nutan S.

(SMT. ANJU BHUTANI)
PRINCIPAL
BVM, CL

(SMT. NIRUPAMA PADMARAJ)
PRINCIPAL
BVM, SKN

(SMT. VANDANA BISEN)
PRINCIPAL
BVM, ASHTI

(SMT. PARWATI G. IYER)
PRINCIPAL
BVM, TRMN

(MS. SARBANI BOSE)
PRINCIPAL
BVM, KORADI

(SMT. RAJI SRINIVASAN)
PRINCIPAL
BVM, CHB

TERM - II



Bhavan's B.P. Vidya Mandir, Nagpur

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

Subject: Physics

Class: VIII

Topic: Light

Sub-topic: Laws of Reflection of Light

Nature of Task: Pre Content (Individual)

Task: Measuring the angle of reflection by given angle of incidence & verify laws of reflection

Skills Assessed: Developing hypothesis,

Planning investigations, visual reasoning.

Learning Objectives: Students will be able to -

- Measure angle of incidence and angle of reflection
- Find the relationship b/w angle of incidence & reflection.
- Verify the relationship $\angle i = \angle r$.

Procedure: Students will be instructed about the materials needed for the activity using a laser torch students will focus the light on plane mirror and using a protractor.

they will measure the angle of reflection for three different angles.

They will tabulate the data for angle of incidence & corresponding angle of reflection and analyse the relationship between them.



Assessment Criteria: Self Assessment, Problem Solving ability, Analysing.

Duration of the Task: One Week

Follow up / Feedback: Teacher will appreciate the work of students and provide guidance whenever required.

Assessment Rubric: Measuring Angle of reflection = 2m.
Finding error if any = 2m.
Verifying 1st law of reflection = 1m.
Total = 10m.

Subject Coordinator's: Name and Signature

CL :

SKN :

ASHTI: Konika Arora Konika

TMN: Mamta G. Mamta

KORADI: Ankush B. Ankush

CHB: Shivani Yadav Shivani

Ab
(SMT. ANJU BHUTANI)
PRINCIPAL
BVM, CL

Ab
(SMT. NIRUPAMA PADMARAJ)
PRINCIPAL
BVM, SKN

Ab
(SMT. VANDANA BISEN)
PRINCIPAL
BVM, ASHTI

Parwati
(SMT. PARWATI G. IYER)
PRINCIPAL
BVM, TRMN

Bose
(MS. SARDANI BOSE)
PRINCIPAL
BVM, KORADI

Raji
(SMT. RAJI SRINIVASAN)
PRINCIPAL
BVM, CHB



Bhavan's B.P. Vidya Mandir, Nagpur

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

Assessment Criteria: • Regularity
• Completion
• Neatness

Duration of the Task: 1 week per chapter.

Follow up / Feedback: Guidance will be provided by the teacher to help the students to complete their work on time.

Assessment Rubric: Regularity - 2 marks
Neatness - 1 mark
Completion of task - 2 marks

Subject Coordinator's: Name and Signature

CL : _____

SKN : _____

ASHTI: Kanika Asora Kanika

TMN: Mamta G. namting 23

KORADI: Ankush. B. W.

CHB: Shivani Yadav 25/5/23

Mouda: Nutan S. 25/5/23

Ab
(SMT. ANJU BHUTANI)
PRINCIPAL
BVM, CL

W
(SMT. NIRUPAMA PADMARAJ)
PRINCIPAL
BVM, SKN

W
(SMT. VANDANA BISEN)
PRINCIPAL
BVM, ASHTI

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PRINCIPAL
BVM, TRMN

Bose
(MS. SARBANI BOSE)
PRINCIPAL
BVM, KORADI

(SMT. RAJI SRINIVASAN)
PRINCIPAL
BVM, CHB



Subject: Science (Physics)

Class: VIII

Topic: Note book

Sub-topic: For all chapters

Nature of Task: Post Content

Task: Note book Submission

Skills Assessed: Regularity, Completion of assignment, Neatness, upkeep of Note book.

Learning Objectives: _____

- To assess the maintainence of subject note book.
- To assess the way a student writes the answers, draws diagrams, writes Index and Overall presentation

Procedure: Exercise questions and answers will be discussed and written in the classwork notebook

- Diagrams will be drawn
- Students will submit classwork notebook after completion.