

**DAV PUBLIC SCHOOL ,WAIDHAN**  
**SESSION 2022-23**  
**CLASS – IX**  
**HOLIDAY HOMEWORK**

**SUBJECT - PHYSICS**

1. Two bodies of equal masses move with uniform velocities  $v$  and  $3v$  respectively. Find the ratio of their kinetic energies.
2. A family uses 250 units of electrical energy during a month. Calculate this electrical energy in joules.
3. State and explain law of conservation of energy with an example.
4. What is frequency of sound wave whose time period is 0.05 s?
5. Show that sound needs a medium to travel.
6. What is a longitudinal wave? Give examples.
7. Make a list of different types of musical instruments and discuss your friends which part of the instrument vibrates to produce sound.
8. Why are sound waves called mechanical wave?

**SUBJECT– Chemistry**

1. Write at least 10 MCQ from each chapter.
2. Write and learn elements from atomic number 1-30 with symbols.
3. Draw and learn table 3.7 given on page number 37.
4. Show diagrammatically the electron distribution in a sodium atom and a sodium ion and also give their atomic number.
5. Write the formulae of the following and calculate the molecular mass for each one of them.
  - a) Caustic potash
  - b) Baking powder
  - c) Lime stone
  - d) Caustic soda
  - e) Ethanol
  - f) Common salt
6. Prepare for PT 3.

**Subject :- Biology**

- 1) Make a list of cell organelles and their functions along with the diagrams.
- 2) perform any activity given in chapter Tissue and write the observation in your fair notebook.
- 3) visit to nearby farm and ask to the farmers about the measures taken for higher yields and note down in your notebook .Also mention the area and name of the farmer.
- 4) Write 10 MCQ from each biology chapters.

5) Prepare for PT3.

## Subject :- CHEMISTRY

Q1 explain the ratherford atomic model and write its limitation.

Q2 what is Niles Bohr atomic model. How he explain the unstability of atoms of ratherford atomic model

Q3 define the following:-

(a) Mass number

(b) Atomic number

Q4 Define isotopes, write the isotopes of any four elements and its uses.

विषय: - संस्कृतम्

1- ' किम् ' शब्दस्य शब्दरूपाणि पुल्लिङ्ग - स्त्रीलिङ्गे लिखत स्मरत |

2- गतिविधि: - पत्रावलि- पत्रे आरेखीय - माध्यमेन प्रश्ननिर्माणं कुरुत |

षट् ककारा: - कुत्र, कुतः, कदा, किमर्थम्, कति, कीदृशः |

## SUBJECT - COMPUTER

Write Questions and answers of PART - B

## SUBJECT : ENGLISH

1. Make a portfolio on any one of the given topic

a) On killing a tree

b) No men are foreign

c) The road not taken

## SUBJECT : SOCIAL SCIENCE

1. MAKE A PROJECT WORK ON DISASTER MANAGEMENT.

2. PREPARE THE CHAPTER 5 OF HISTORY, POLITICAL SCIENCE AND GEOGRAPHY OF YOUR TEXT BOOKS FOR PERIODIC TEST THIRD.

3. COMPLETE THE NOTES AND BE PREPARE FOR THE CORRECTION WORK AFTER WINTER VACATION.

## विषय - हिंदी

प्रश्न :1: छुट्टियों और त्योहारों का हमारे जीवन में क्या महत्व है ? इस विषय पर लगभग डेढ़ सौ शब्दों में एक अनुच्छेद लिखिए --

प्रश्न :2: अपने क्षेत्र की टूटी - फूटी नालियों एवं सड़कों की मरम्मत के लिए नगर निगम अधिकारी को पत्र लिखिए--

प्रश्न :3: शीत ऋतु की छुट्टियों में आपने क्या-क्या किया ? उसे डायरी के रूप में लिखिए--

प्रश्न :4: प्रकृति से संबंधित एक कविता लिखिए --

# **SUBJECT : MATHS**

1. Complete maths lab Manual activity -15,16,17,18,19,21,22
2. Revise exercise of ch-12,13,14 from NCERT exemplar.