

**ADARSH VIDYALAYA MOWA**  
**HOLIDAY PRACTICE WORK / SKILL DEVELOPMENT ACTIVITIES (2023-24)**  
**CLASS – IX**

**General Note:**

- 1. All the assigned work will be assessed and graded.**
- 2. All vacation Practice work need to be done in class work copy.**
- 3. Assessment of reading will be done in every exam.**
- 4. Parents are requested to:**
  - **Spend time & have meals together with your ward.**
  - **Motivate your ward to inculcate the habit of “READING HINDI & ENGLISH Literature (Newspaper, Comics etc.)**
  - **Allow them to be independent (age wise) in their daily tasks like:**
    - **Arrange shelves**
    - **Washing their own plates**
    - **Watering plants & weeding Garden**
    - **Hang/fold clean clothes**
    - **Dust furniture**
    - **Do simple mending (hems, buttons, etc.)**
    - **Shop for groceries with list**
    - **Iron clothes etc.**
  - **Include your ward while preparing monthly budget.**
  - **Share your family history & your childhood memories with them**

## SUBJECT – ENGLISH

1. Read the Newspaper daily and write only one news article under the given headings like National, International, Sports, Business and express your views on it.
2. Create a comic strip based on poems 'Wind' and 'Rain on the roof'.
3. You encountered two strange people. They were different from normal human beings but they were quite interesting and exciting. As Manish/ Manisha using your ideas, Write a diary entry in about 100-120 words narrating your experience with them.

## SUBJECT – HINDI

प्रश्न 1. उपसर्ग किसे कहते हैं? उपसर्ग एवं मूल शब्द पृथक करते हुए 10 उदाहरण लिखिए।

प्रश्न 2. प्रत्यय किसे कहते हैं? मूल शब्द एवं प्रत्यय अलग करते हुए 10 उदाहरण लिखिए।

प्रश्न 3. निम्नलिखित विषय पर अनुच्छेद लिखिए।

योग का महत्व

संकेत बिंदु:- भूमिका, पतंजलि का परिचय, आज के युग में योग की आवश्यकता।

प्रश्न 4. ग्रीष्मावकाश में विद्यालय में खेल शिविर आयोजित करने को लेकर प्रधानाचार्य को एक प्रार्थना पत्र लिखिए।

प्रश्न 5. निम्नलिखित शीर्षक को आधार बनाकर एक लघु कथा लिखिए।

“अब पछताए होत क्या जब चिड़िया चुग गई खेत “

## SUBJECT – MATHEMATICS

1. Look at several examples of rational numbers in the form  $p/q$  ( $q \neq 0$ ). Where,  $p$  and  $q$  are integers with no common factors other than 1 and having terminating decimal representations (expansions). Can you guess what property  $q$  must satisfy?
2. Write three numbers whose decimal expansions are non-terminating non-recurring

3. Find:

(i)  $9^{\frac{3}{2}}$

(ii)  $32^{\frac{2}{5}}$

(iii)  $16^{\frac{3}{4}}$

(iv)  $125^{-\frac{1}{3}}$

4. Express the following in the form p/q, where p and q are integers and q ≠ 0:

(i) 0.2.

(ii) 0.888....

(iii)  $5.\bar{2}$

5. Simplify:

$$\frac{7\sqrt{3}}{\sqrt{10} + \sqrt{3}} - \frac{2\sqrt{5}}{\sqrt{6} + 5} - \frac{3\sqrt{2}}{\sqrt{15} + 3\sqrt{2}}$$

6. If  $\sqrt{2} = 1.414$ ,  $\sqrt{3} = 1.732$ , then find the value of

$$\frac{4}{3\sqrt{3} - 2\sqrt{2}} + \frac{3}{3\sqrt{3} + 2\sqrt{2}}$$

### **SUBJECT –PHYSICS**

1. Write 10 Physical quantities formulae and its S.I unit.
2. Differentiate between scalar and vector quantities.
3. Explain uniform and non- uniform motion with example.
4. Draw the graph for uniform and non – uniform motion.
5. Explain about positive and negative acceleration with example

Models Topic-

1. Make a model to explain the law of conservation of momentum.
2. TO STUDY ANALYSIS OF THE EXOPLANET METALLICITY-PERIOD-MASS RELATIONSHIP.

### **SUBJECT -CHEMISTRY**

1. Draw or paste 10 application of evaporation and explain each in brief.
2. Write and memorize element from atomic number 1-20, with their electronic configuration.
3. Make a model on following.
  - Bohr's atomic model / Rutherford's alpha particle scattering model
4. To make a novel model on "Thermal conductivity of air and water".

## **SUBJECT -BIOLOGY**

1. Differentiate the following terms
  - A) Cytoplasm and nucleoplasm
  - B) Active and Passive transport
  - C) Macronutrients and Micronutrients used by plants.
2. Draw the nucleus of the cell and write a short note for the following
  - A) Double layered structure which encloses the nucleus
  - B) Visible entangled mass of thread like structure
  - C) A darkly stained round structure inside the nucleus
3. Write the differences between Plant and Animal tissues in the form of mind map.
4. Make a 3D model of vascular bundle.
5. Prepare an innovative project based model on plant pathology. And also submit your innovative information and research about plant pathology and their caring to resolve the environmental issues.

## **SUBJECT – SOCIAL SCIENCE**

**(A) Prepare ‘My own Atlas’ in your Geography copy on the following topics.**

**(i) On Physical map of India –1**

Neighbouring Countries with capital

**(ii) On Physical map of India –2**

- Tropic of Cancer( also locate the States from where Tropic of
- Cancer passes)
- Standard Meridian
- Latitudinal and Longitudinal extent

**(iii) On Political map of India –1**

States with Capitals

**(IV) On Political map of India –2**

Union Territories with Capitals

**(v) On Political map of India –3**

States sharing International boundaries

**(v) On the World map locate**

Continents and Oceans

**(B) Make a model on any one topic mentioned below according to your section.**

**Class - IX A (i) Rain Water Harvesting**

**(ii) Structure of Courts in India**

**Class – IX B (i) Inside view of Rajya Sabha  
(ii) Types of Farming**

**Class – IX C (i) Types of irrigation  
(ii) Types of minerals**

**Class IX D - (i) Organs of the Government  
(ii) Social reformers and their contribution to society ( any 5)**

**SUBJECT – ARTIFICIAL INTELLIGENCE (AI)**

1. Draw the flowchart explaining stages of AI Project cycle.
2. Enlist the contribution on **John McCarthy** in the field of Artificial Intelligence.
3. Explore the “Elements of communication”.
4. Write the steps to book train ticket from IRCTC website.
5. Explain Neural network with diagram.