

Dr. Virendra Swarup Education Centre, Unnao Summer Holiday Homework 2025-26. Class VIII

"Summer homework isn't a burden—it's a bridge. It keeps your mind sharp, your curiosity alive, and your goals within reach, even while the sun shines bright."

#### Guidelines for doing holiday homework -

- Holiday homework of each subject is to be done in the respective subject notebooks.
- Do it on regular basis with date.
- It should be done in very neat and clean manner with good handwriting.
- Questions must be done in the correct sequence.
- It will be assessed on the basis of handwriting, neatness, completion and honest efforts.
- The sequence of the given homework is in the following way English, Hindi, Maths, Science, Social Studies and Computer.

#### **English**

**1. Formal Letter Writing:** 

Topic: Write a letter to the Municipal Commissioner of your city, requesting the installation of more street lights in your locality to ensure safety at night. Follow proper format: Sender's address, date, receiver's address, subject, salutation, body, and complimentary close.

2. Project Work: Vocabulary Builder Booklet

Title: "My Vocabulary Booster: 30 Words in 15 Days" Instructions:

Learn 2 new English words every day for 15 days. For each word, write: The word Meaning

3. Part of speech (noun, verb, etc.) A sentence using the word

A small drawing or symbol that helps you remember it (optional) Decorate your booklet neatly.

4. Paragraph Writing

**Topic: "A Day Without Electricity" Instructions:** 

Write 120–150 words.

Use proper paragraph structure: introduction, body, conclusion. 4-Read the second chapter of Novel.

#### **Mathematics**

Q1. A teacher taught students concepts of squares square and roots. He told them if a number is ending with digits 2,3,7,8 then it can't be a perfect square. Now answer the following questions:

a. Are 1222,723,627,1688 perfect squares?

b. 10404 students are sitting in a lecture room in such a manner that there are as many students in a row as there are rows in a lecture room.c. How many students are there in each row of a lecture room? Q2. In standard form the number is written as m multiplied by 10 raised to the power n keeping this thing in mind now answer the following questions: -

a. The distance of sun from earth is 149600000000 m express it in standard form.

b. The number of blood cells Per cubic millimetre of blood is approx. 5.5 million if the average body contains 5L of blood what is the total number of blood cells in the body

Q3. A mother and her two sons got a room constructed for Rs.60000, the elder son contributes 3/8 of his mother's contribution while the younger son contributes ½ of his mother's share, now answer the following questions

a. Find the mother's share.

b. Find the younger son's share.

Q4. ASSERTION(A):- in multiplication if base is same then powers are added REASON(R):- the value of 1000 raised to the power 0 is 1 Q5. ASSERTION(A):- Two rational numbers between 3 and 4 are 7/2, 13/4 REASON(R):-rational number between two given rational numbers a C b,a<b is (a+b)/2.

Q6. Find the smallest natural number by which 1008 should be multiplied to make it a perfect square.

Q7. Find the smallest natural number by which 5808 should be divided to make it a perfect square.

Q8. The area of rectangle is 1936 m<sup>2</sup>. If the length of the rectangle is 4 times its breadth, find the dimensions of the rectangle

Q9. Find three positive numbers in the ratio 2 : 3 : 5, the sum of whose squares is 950 Q10. What least number must be added to 1750 to make it a perfect square

Q11. The product of two numbers is 7260. If one number is 15 times the other number, find the numbers.

Q12. In a class, the girls are 60% of the total number of students and the boys are 18 in number. How many students are there in class?

Q13- Make a chart from any one chapter (Ch.1,2,3,4,6). Q14- Out of her total monthly salary. Tanvy spends 30 % on house rent and 60 % of the rest on household expenditure. If she saves rupees 10500, What is her total monthly salary?

Q15- Find 20 rational numbers between -5/6 and 5/8.

#### **Science**

Q1. Balance the following chemical equation:

a) Cu(NO3)2	$\rightarrow$	CuO + NO2 + O2
b) Na2CO3 + HCl	$\rightarrow$	NaCl + CO2 + H2O
c) Mg + CuSO4	$\rightarrow$	MgSO4 + Cu
d) Na2CO3 + H2SO4	$\rightarrow$	Na2SO4 + CO2
e) KOH + H2SO4	$\rightarrow$	K2SO4 + H2O
f) AgNO3 + Cu	$\rightarrow$	Cu(NO3)2 + Ag
g) H2SO4 + NaOH	$\rightarrow$	Na2SO4 + H2O
h) FeCl3 + NH4OH	$\rightarrow$	Fe(OH)2 + 3NH4Cl
i) C + S	$\rightarrow$	CS2
j) Pb (NO3)2	$\rightarrow$	PbO + NO2 + O2
k) CaCO3 + HCl	$\rightarrow$	CaCl2 + H2O + CO2
l) Fe + O2 + H2O	$\rightarrow$	Fe2O3 H2O
m)Al(OH)3 + H2SO4	$\rightarrow$	Al2(SO4)3 + H2O
n) Fe(OH)3 + HNO3	$\rightarrow$	Fe(NO3)2 + H2O

Q2. Solve the following numericals.

- a) What force will be needed to produce an acceleration of 4 m/s<sup>2</sup> in a ball of mass 6kg.
- b) A mass applies a 40 N of force on a wall find the force applied by the wall on the man.
- c) What is the acceleration produced by a force of 10 N exerted in an object of mass 300 g?
- d) Convert 76° to °F
- e) A force of 200 N on an area of 0.2 m<sup>2</sup> find the pressure in pascal.

Q3. Prepare the working models of the following: Students have to choose any one model among the following given models

- a) Manometer
- b) Methods of Irrigation –
  1) Sprinkle 2) Drop irrigation
- c) Nitrogen cycle
- d) Types of Microorganisms
- e) Cell plant and animal cells
- f) Life cycle of frog (3D Model)
- g) Gold Leaf electroscope
- h) Electroscope
- i) Kaleidoscope
- j) **3-D model of eye**
- k) Internal structure of human ear
- I) Deforestation /Afforestation
- m) Farming (mixed farming /Field fellow)
- n) 3D model of structure of atom
- o) Water cycle
- p) Global warming Instructions
- For making above models, you can use clay, waste paper crumbles, cardboard, packing boxes, wood, concrete etc.
- The use of new materials should be avoided, reuse of old materials will be highly appreciated.
- To make them working you have to use toy motor, a 9 V dc battery etc.
- Model should have a proper cardboard base, showing the name of your model along with your name tag.
- Include innovative and creative ideas to make your presentation a perfect one.
- The overall size of your model must be 50cmx50cm.
- Use of thermocol and plastic is strictly restricted.

#### **Social Science**

History/Civics: -

Write about and paste pictures of leaders of the 1857 revolt and present it in a collage format.

(Do it in history/civics notebook)

Geography: -

Prepare a model and report on the depletion of resources and its impact on human life.

### **Computer Science**

Make a project in your computer notebook with the help of Internet, make a report on 4 Augmented Reality and 4 Virtual Reality applications. (Paste the pictures and explain the applications in 3-4 lines).

# **Artificial Intelligence**

Write about two examples of each domain of A. I. with their images

## <u>Hindi</u>

3- यातायात के साधनों में आरंभिक काल से लेकर आधुनिक समय तक जो परिवर्तन आया है उसकी चित्रात्मक परियोजना का निर्माण कीजिए ।
२- एक ऐसे भारतीय राजा का वर्णन कीजिए, जो अपनी वीरता और बुद्धिमत्ता के कारण देश में ही नहीं अपितु विश्व में प्रसिद्ध हो गए।
नोट:- समस्त कार्य हिंदी भाषा की अभ्यास पुस्तिका में किया जाएगा