



DOON BHARTI PUBLIC SCHOOL

HOLIDAYS HOMEWORK

SESSION : 2022 – 23

Name of Student _____

Class IX

Section _____

Dear Parents,

Long summer break is the most joyful part of school life! Summer vacation is around the corner. We hope the children enjoyed their first spell in school as we enjoyed getting to know them.

Holidays are meant for enjoyment and if this time is used for creative pursuits, it becomes learning experience. The holiday homework has been designed to be a meaningful and creative exercise. Do ensure the child is involved with your guidance.

General guidelines:

- Summer vacation starts from 1st June'22 up to 03rd July'22. School will reopen on Monday 4th July'22.
- The holiday homework is available online on our websites: www.doonbharti.in & www.doonbharti.com
- Students are to complete HHW in a separate HHW note book / worksheet or as per given direction.
- Activities of each subject carries 2% total weightage in first term.

FOR THE PARENTS

Be A Friend: Play games with your child like – Ludo, Carrom-board or Scrabble.

Explore Nature: Take your child for morning walk, count trees, cars, stones, flowers etc. while going for a walk.

LANGUAGE DEVELOPMENT

Story Time: Read stories, recall some characters and incidents of the story by writing summary of story & character of sketches of different characters of story.

Use magic words like.

“Thank You”

“Please”

“Excuse me”

and

“Sorry”

Best Wishes

Holiday Homework 2022

1. Watch English news daily in order to equip yourself with the information and facts to be used in as content in writing skills.
2. Read the chapters 'The Sound of Music', 'The Little Girl' and write the character sketches of the following.
 - a. Bismillah Khan
 - b. Evelyn Glennie
 - c. Margie
3. You are Vaibhav, Vaibhavi. You are asked to write an article for the school magazine on 'climate change'. Use your ideas and hints given below.

Human activities burning fossil fuels releases carbon dioxide- rise in earth's temperature – causes sea level changes – adversely affects precipitation – seasons – flora and fauna

4. Given below is a list of literary devices. Select three poems from the syllabus and highlight the presence of listed literary devices while explaining the literary devices.
 - Simile
 - Metaphor
 - Personification
 - Irony
 - Repetition
 - Hyperbole
 - Allusion
 - Apostrophe
 - Paradox
 - Onomatopoeia
5. Maintain a dictionary by reading an English newspaper and watch your favourite show. Take note of the new Words (at least 5) that you see and hear and copy those words down in your notebook. Refer to the internet and learn what those words means.

विषय-हिन्दी

अवकाश कार्य

1. अंतरण मूल्यांकन भाग 1

निर्देश – (1) सभी कार्य अनिवार्य है

(2) अवकाश कार्य के अंक दिए जाएंगे।

(1) स्क्रेपबुक में मीरा के दो पद चित्र सहित लिखिए। (अर्थ नहीं लिखना)

(2) चार्ट पेपर पर अर्थ के आधार पर वाक्य भेद चित्र सहित स्पष्ट कीजिए।

(3) पर्वतारोही बछेंद्री पाल का चरित्र चित्रण अवकाश कार्य कॉपी में करिए।

(4) गिल्लू पर आधारित एक स्केच तैयार कीजिए जिसमें लेखिका महादेवी वर्मा का गिल्लू के प्रति स्नेह दर्शाया गया हो। (A3 शीट)

(5) निम्नलिखित अपठित गद्यांश को "अवकाश कार्य" कॉपी में करो।

- 11 से 15 (पेज न० 143, 144, 144, 145, 145)

(6) निम्नलिखित "अपठित काव्यांश" को अवकाश कार्य कॉपी में करो।

- 9 से 13 (पेज न० 158, 159, 160, 161, 161)

Subject- Maths
Holiday Homework 2022

- By using different solid shapes make a funny creature.
 - Write an article in 300 words in scrap book on the topic “ An Indian mathematician”
 - Do/solve following questions in holiday homework notebook.
- A.** Which of the following rational numbers have terminating decimal representation

(i) $\frac{3}{5}$ (ii) $\frac{2}{13}$
(iii) $\frac{40}{27}$ (iv) $\frac{23}{7}$

- B.** The value of $(2 + \sqrt{3})(2 - \sqrt{3})$

- (i) 1 (ii) -1
(iii) 2 (iv) none of these

- C.** $(27)^{-2/3}$ is equal to

- (i) 9 (ii) 1/9
(iii) 3 (iv) None of these

- D.** Every natural number is

- (i) not an integer (ii) always a whole number
(iii) an irrational number (iv) not a fraction

- E.** Select the correct statement from the following

(i) $\frac{7}{9} > \frac{4}{5}$ (ii) $\frac{2}{6} < \frac{3}{9}$
(iii) $\frac{-2}{3} > \frac{-4}{5}$ (iv) $\frac{-5}{7} < \frac{-3}{4}$

- F.** 0.83458456.....is

- (i) an irrational number (ii) rational number
(iii) a natural number (iv) a whole number.

- G.** A terminating decimal is

- (i) a natural number (ii) a rational number
(iii) a whole number (iv) an integer.

- H.** The $\frac{p}{q}$ form of the number 0.8 is

- (i) $\frac{8}{10}$ (ii) $\frac{8}{100}$ (iii) $\frac{1}{8}$ (iv) 1

I. The value of $\sqrt[3]{1000}$ is

- (i) 1 (ii) 10
(iii) 3 (iv) 0

J. The sum of rational and an irrational number

- (i) may be natural (ii) may be irrational
(iii) is always irrational (iv) is always rational

K. Write the coefficients of x^2 in each of the following:

- (i) $2+x^2+x$ (ii) $2-x^2+x^3$
(iii) $\frac{\pi}{2}x^2+x$ (iv) $\sqrt{2}x-1$

L. Find the remainder when $x^3 - ax^2 + 6x - a$ is divided by $x - a$.

M. Evaluate the following products without multiplying directly:

- (i) 103×107 (ii) 98×96 (iii) 104×96

N. Factorize the following using appropriate identities:

- (i) $9x^2 + 6xy + y^2$ (ii) $4y^2 - 4y + 1$ (iii) $x^2 - \frac{y^2}{100}$

O. Verify:

- (i) $x^3 + y^3 = (x+y)(x^2 - xy + y^2)$ (ii) $x^3 - y^3 = (x-y)(x^2 + xy + y^2)$

P. Factorize:

- (i) $27y^3 + 125z^3$ (ii) $64m^3 - 343n^3$

Q. Factorize: $27x^3 + y^3 + z^3 - 9xyz$

R. Verify that

$$x^3 + y^3 + z^3 - 3xyz = \frac{1}{2}(x+y+z)[(x-y)^2 + (y-z)^2 + (z-x)^2]$$

S. If $x+y+z=0$, show that $x^3 + y^3 + z^3 = 0$.

T. Find the expression for possible length and breadth in the polynomial shown area of rectangle by $x^2 - 6x + 8$.

Social Science

Holiday Homework 2022

A) Activity No 1

Prepare a project file on anyone natural or human made disaster. topics are—

- i) landslides on hilly region
- ii) covid-19 (negative and positive effect)
- iii) war between two countries Russia and Ukraine.

General information

- i) topic is related to disaster management
- ii) the project file should include minimum 8 pages.
- iii) it should be clear hand work and with coloured pictures.
- iv) helping guidelines post disaster.

B) Scrap Book– (Based on Eco Ch 1)

Draw draw a picture of ideal village and describe the main features also in short.

Subject- Science

Holiday Homework 2022

PHYSICS-

- Solve the numerical of N.C.E.R.T textbook of chapter 2 (based on concentration of solution) and chapter-8 (Motion) in your holiday homework notebook.

CHEMISTRY-

SCRAP BOOK ACTIVITY-

- With the help of labelled diagram describe an activity to show that the particles of matter are very small. Use the following material that has been provided to you: Four beakers, spatula, four test tubes, distilled water and a few crystals of potassium permanganate. (Even Roll No)
- Give an experiment to show the separation of ammonium chloride and common salt. (Odd Roll No)

BIOLOGY-

- Draw the figures on A3 sheet according to the allotted topics.
 - I. Animal Cell (1-5 Roll No)
 - II. Plant cell (6-10 Roll No)
 - III. Chloroplast (11-15 Roll No)
 - IV. Mitochondria (16-20 Roll No)
 - V. Golgi apparatus (21-25 Roll No)
 - VI. Nucleus (26-30 Roll No)