



Bal Bharati
PUBLIC SCHOOL
NTPC, DARLIPALI

(An Institution of the Child Education Society(Regd.), New Delhi)

Holiday Homework

Class-IX

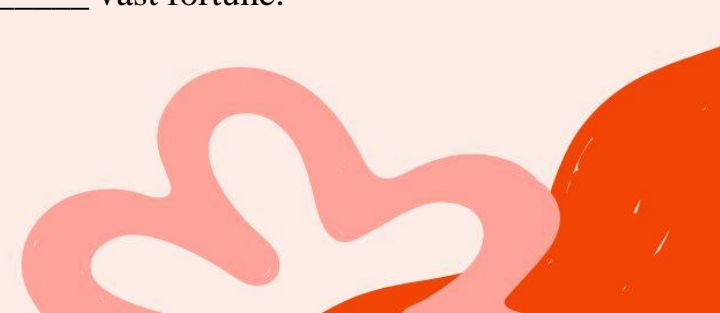
Name:

Roll No.:





ENGLISH HOLIDAY HOMEWORK

- A. Write a **descriptive paragraph** on **Evelyn Glennie** and **Ustad Bismillah Khan**, taking hints from the chapter ‘The sound of the Music’
- A. Imagine you are Margie from the story 'The Fun They Had.' Write a diary entry reflecting on your thoughts after hearing about the old-fashioned schools where children learned together in classrooms. How did it make you feel? Do you think you would enjoy that kind of school? Why or why not?
- A. **Fill in the blanks with suitable articles.**
- 1) I can't believe I met _____ actor from _____ famous movie!
 - 2) _____ courage she displayed during _____ crisis was commendable.
 - 3) _____ Renaissance was _____ period of great cultural revival.
 - 4) Have you ever visited _____ Louvre in _____ Paris?
 - 5) He gave _____ outstanding performance in _____ Shakespearean play.
 - 6) _____ Statue of Liberty is located on _____ Liberty Island.
 - 7) _____ universe is filled with countless galaxies.
 - 8) She has _____ Master's degree in _____ psychology.
 - 9) _____ honesty is _____ virtue valued by many.
 - 10) He is _____ heir to _____ vast fortune.
- 

MATHEMATICS

HOLIDAY HOMEWORK

Solve the following:-

1. Represent $\sqrt{3.5}$ on the number line
2. Express $1.\overline{32} + 0.\overline{35}$ as a fraction in simplest form.
3. Express $0.12\overline{54}$ in the form p/q .
4. If $x = 3+2\sqrt{2}$, find the value of $x^2 + \frac{1}{x^2}$.
5. If $x = 2+\sqrt{5}$, find the value of $x^2 + \frac{1}{x^2}$.
6. Rationalise the denominator $\frac{1}{\sqrt{6}+\sqrt{5}-\sqrt{11}}$.

1. If a and b are rational numbers, find a and b

a) $\frac{\sqrt{2}+\sqrt{3}}{3\sqrt{2}-2\sqrt{3}} = a + b\sqrt{6}$

b) $\frac{\sqrt{5}-2}{\sqrt{5}+3} - \frac{\sqrt{5}+3}{\sqrt{5}-2} = a + b\sqrt{5}$

1. Simplify $\frac{1}{1+\sqrt{2}} + \frac{1}{\sqrt{2}+\sqrt{3}} + \frac{1}{\sqrt{3}+\sqrt{4}}$

2. If $a = \frac{\sqrt{3}-\sqrt{2}}{\sqrt{3}+\sqrt{2}}$ and $b = \frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}}$ Find $a + b$

3. If $a = 9 - 4\sqrt{5}$, find the value of $\left(a - \frac{1}{a}\right)^2$

4. If $x = 1 - \sqrt{2}$, find the value of $\left(x - \frac{1}{x}\right)^3$.

5. Find four rational numbers between $3/5$ and $4/5$.

6. Simplify and express the result in the simplest form:

$$\frac{(25)^{\frac{3}{2}} \times (243)^{\frac{2}{5}}}{(16)^{\frac{5}{4}} x (8)^{\frac{4}{3}}}$$

7. Find the value x, if $5^{x-3} \times 3^{2x-8} = 225$

8. Solve:-

a) $49 \times 7^x = (343)^{\frac{1}{3}}$

b) $2^x = (128)^{\frac{1}{7}} \times (\sqrt{2})^4$

c) Find x : $-3^x = \frac{9}{27^x}$

d) $\left(\frac{1}{7}\right)^{4-2x} = \sqrt{7}$

9. Make a square root spiral upto $\sqrt{100}$ on chart paper.



S.S.T HOLIDAY HOMEWORK

1. Project Work: Make a project file on Indian Democracy (explain features of Indian democracy, electoral system and drawbacks of Indian democracy)
2. Exercise Questions: Chapter 1 Economics (The Story of village Palampur)

SCIENCE HOLIDAY HOMEWORK

Science Craft - 3D Types of Mixtures (for roll no1-3)

1. Make a 3D chart using cotton balls, color papers, sand, salt, glitter:
2. Show Solutions, Suspensions, and Colloids using real materials.
3. Stick them on cardboard to make a 3D model!

Collage on "Types of Mixtures" (for roll no4-6)

Create a colorful collage showing examples of:

Solutions

Suspensions

Colloids

Use real wrappers, cutouts from newspapers, magazines

A.I HOLIDAY HOMEWORK

Create any kind of model using teachable machine a popular no code AI tool and share it with me

Machine: <https://teachablemachine.withgoogle.com/>

Holiday Homework Title: "Build Your Own AI Model with Teachable Machine!"




What You Will Do:

Each student will create their own simple AI model using **Teachable Machine**, test it, and share it with the class after the summer break.

Steps to Follow:

1. Choose Your Model Type

Pick **one** of the following AI model types:

-  Image Project – Classify different objects (e.g., water bottle vs. pencil case)
-  Audio Project – Recognize sounds (e.g., clapping vs. whistling)
-  Pose Project – Detect different body movements (e.g., sitting vs. standing)



2. Create Your Model

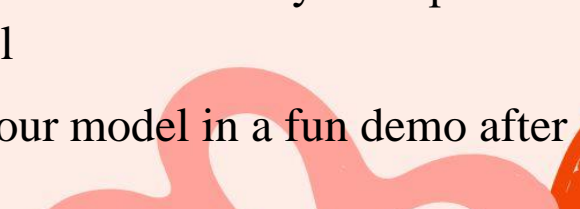
- Go to [Teachable Machine](#)
- Collect or record your own training data (images/sounds/poses)
- Train your model
- Test the model using the live preview
- Click on **Export Model > Shareable Link** (no sign-in needed)

3. Prepare a Project Report (1-2 pages)

Include the following:

- Title of your AI Model
- What does your model do?
- How did you train it? (with a few pictures or screenshots)
- What challenges did you face?
- What did you learn about AI?

4. Share the Link

- Paste your model's shareable link in your report or submit it through mail
 - Be ready to present your model in a fun demo after the holidays!
- 

HINDI HOLIDAY HOMEWORK

1-महान उपन्यासकार ,कहानीकार यशपाल शर्मा का सचित्र जीवन परिचय लिखिए | (गृहकार्य पुस्तिका में)

2-कहानी लेखन: "मेरा गाँव, मेरा सपना"

कार्य: अपने गाँव या कस्बे की विशेषताओं को आधार बनाकर 100-200 शब्दों में एक काल्पनिक कहानी लिखें, जिसमें आप एक ऐसे बदलाव की कल्पना करें जो आपके गाँव को और बेहतर बनाए।

उद्देश्य: रचनात्मक लेखन, स्थानीय संस्कृति और कल्पनाशक्ति को प्रोत्साहन।

3-पत्र लेखन: 'मेरे प्रिय लेखक/कवि को पत्र'

कार्य: अपने पसंदीदा हिंदी लेखक (जैसे प्रेमचंद, या अन्य कोई भी लेखक या कवि) को एक औपचारिक पत्र लिखें। पत्र में बताएँ कि उनकी कौन-सी रचना अपने पढ़ी और आपको पसंद आई और क्यों। (150-200 शब्द)

उद्देश्य: औपचारिक लेखन, साहित्य के प्रति रुचि और विश्लेषणात्मक सोच को बढ़ाना ।

4-प्रकृति की डायरी -

एक सप्ताह तक रोज़ अपने आसपास की प्रकृति (जैसे, पेड़, पक्षी, या मौसम) को देखो और हर दिन 2-3 वाक्य लिखो कि तुमने क्या देखा या महसूस किया।

उद्देश्य :प्रकृति से जुड़ना और उसके परिवर्तन को महसूस करना ।

ODIA HOLIDAY HOMEWORK

ପାଠ - ୧ (କାହା ମୁଖ ଅନାଇ ବଞ୍ଚିବି) ବିଷୟକୁ ପଢ଼ିବ ଓ ଯଶୋଦାଙ୍କ ମାତୃ ହୃଦୟର ମଧୁର ଅଭିବ୍ୟକ୍ତି କିପରି ପ୍ରକାଶିତ ହୋଇଛି ସେ ବିଷୟରେ ୧୦୦ ଶବ୍ଦରେ ଲେଖିବ ।

★ no. ୩୧, ୩୨, ୩୩ ଓ ୩୪ କୁ ଲେଖିବ ।

★ ପାଠ - ୮ (ଜାତୀୟ ଜୀବନ) ବିଷୟକୁ ପଢ଼ିବ ଓ no ୧୮, ୧୯, ୨୦, ୨୩ ଓ ୨୪ କୁ ଲେଖିବ ।

SANSKRIT HOLIDAY HOMEWORK

1. ନିମ୍ନलिखित शब्दरूपाणि कण्ठस्थी कुरुत लिखत च ।

मुनि , नदी , साधु , मातृ , अस्मद् , युस्मद् , तत् , इदम्

2. निम्नलिखित धातुरूपाणि कण्ठस्थी कुरुत लिखत च ।

लट् लकार , लृटलकार , लङ् लकार , लोट् , विधिलृङ्

गम् याद करने से (पठ् , वद् , भू , दृश्(पश्य) , दा , पा(पिब) , क्रीड् समान रूप होता है ।

आत्मनेपदी - सेव्

3. संख्या कण्ठस्थी कुरुत लिखत च ।

20 – विंशतिः 30 - त्रिंशत् , 40 – चत्वारिंशत् , 50 – पञ्चाशत्

60 - षट्तिः 70 – सप्ततिः 80 – अशीतिः , 90 – नवतिः , 100 – शतम्

4. अव्ययपदैः अर्थं लिखत्वा वाक्य रचयत ।

EX - अत्र – यहाँ - अत्र ईश्वरः अस्ति ।

तत्र , अन्यत्र , सर्वत्र , यत्र , एकत्र , उभयत्र

यदा , तदा , कदा , एकदा , सर्वदा , पुरा , अधुना , अद्य , श्वः , ह्यः

किम् कुत्र , कति , कदा , कुतः , कथम् , किमर्थम्

च , अपि , यदि , तर्हि , यथा , तथा , सम्यक्

14. अव्ययपदैः अर्थं लिखत्वा वाक्य रचयत ।

EX - अत्र – यहाँ - अत्र ईश्वरः अस्ति ।

तत्र , अन्यत्र , सर्वत्र , यत्र , एकत्र , उभयत्र

यदा , तदा , कदा , एकदा , सर्वदा , पुरा , अधुना , अद्य , श्वः , ह्यः

किम् कुत्र , कति , कदा , कुतः , कथम् , किमर्थम्

च , अपि , यदि , तर्हि , यथा , तथा , सम्यक्

5. अनुवादं कुरुत ।

क. वह बच्चा विद्यालय जाता है । ख. तुम पढ़ने के लिए विद्यालय जाते हो ।

ग. वह विद्यालय के चारों ओर घूमता है । घ. राम रावण के लिए काफी (अलम्) है ।

ङ. वृक्ष के ऊपर बंदर बैठे हैं । च. देवदत्त यज्ञदत्त से चतुर है । छ. बालक माता से रुपये माँगता है ।

ज. राम पिता से डरता है । झ. शीला व्याकरण धीरे धीरे पढ़ती है । ञ. विद्या का महत्त्व जानते हैं ।

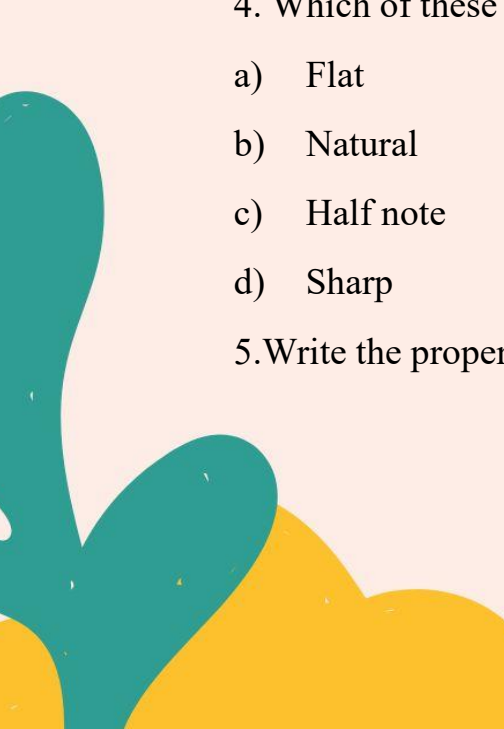

6. Project- work – प्रत्ययः

7. ओडिशा स्थितः मन्दिराणि, ओडिशा प्रसिद्धः उत्सवः- चित्र के साथ निबन्ध लिखिए ।

8. Sanskrit picture dictionary creation.



MUSIC HOLIDAY HOMEWORK

1. Which is the term for the highness and lowness of a musical note?
 - a) Pitch
 - b) Beat
 - c) Duration
 - d) Laya
 2. Which is the key signature for C major?
 - a) One sharp
 - b) Two sharp
 - c) No sharps or flats
 - d) One flat
 3. Which is the correct order of swaras in Indian Classical Music?
 - a) Re, Ga, Ma, Pa, Dha, Ni, Sa
 - b) Sa, Re, Ga, Ma, Pa, Dha, Ni
 - c) Ma, Pa, Dha, Ni, Sa, Re, Ga
 - d) Sa, Ni, Pa, Dha, Ga, Ma, Re
 4. Which of these notes is represented by the symbol “#”?
 - a) Flat
 - b) Natural
 - c) Half note
 - d) Sharp
 5. Write the proper notation of Teentaal and Dadra?
- 
- 



DANCE HOLIDAY HOMEWORK

1. What is the Second section of Bharatnatyam dance?

- (1) Alarippu
- (2) Jatisvaram
- (3) Tilana
- (4) Padam

Answer_____.

2. Who is a legendary Indian Odissi dancer?

- (1) Kabita Krishnamurty
- (2) Kelucharan Mohapatra
- (3) Biju Maharaj
- (4) Rukmini Devi

Answer_____.

3. How many types of Talas there are in Classical dance?

- (1) Six
- (2) Eight
- (3) Five
- (4) Three

Answer_____.

4. In which classical dance Nritya and Abhinaya are two most interesting highlights?

- (1) Odissi
- (2) Kathak
- (3) Manipuri
- (4) Sattriya

Answer_____.





LIBRARY HOLIDAY HOMEWORK

Read the book “ The Naval Journey of India”(Book 3) -
https://drive.google.com/file/d/1PFq6AZLmk9i4iX_LjkzvWRG-sYGOMt09/view?usp=drive_link

Answer to the questions from pages: 31 in a A4 sheet

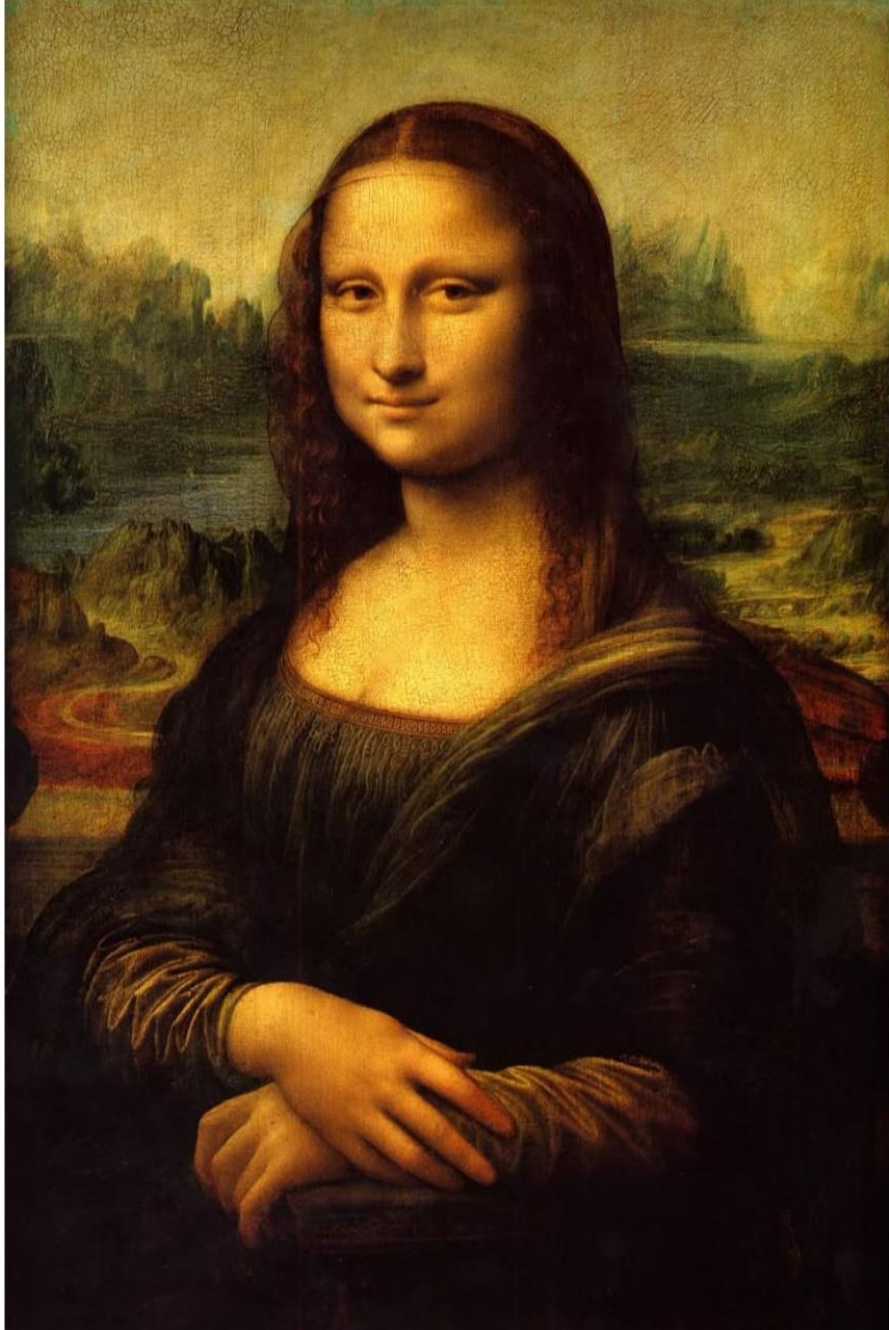
P.E/YOGA HOLIDAY HOMEWORK

1. Distance of Marathon for women _____
2. Discus / Hammer / Short put through sector _____
3. Cycling is the national game of _____
4. First Asian Games held in _____
5. Height of Valley Ball Net for men _____
6. Height of Valley Ball net for women _____
7. High jump runway distance _____
8. How many 400 meter hurdle height for women

9. How many muscle in human body _____
10. In High Jump the length of cross bar is a least _____
11. In which city 1896 Olympic games are held _____
12. In which Olympic did women participate for the first
time _____
13. Width of Valley Ball courts lines _____
14. 2008 Olympic games held in which country _____

Base Ball is the national game of which country

ART & CART
HOLIDAY HOMEWORK



**Make your own Monalisa in Polygonal style
color it with VIBGYOR**