

DAV PUBLIC SCHOOL, SRESHTHA VIHAR, DELHI-110092
HOLIDAYS HOMEWORK 2021-22
ARTIFICIAL INTELLIGENCE
Class-IX

Task I: Introduction to AI

1. How do you think Artificial Intelligence helps you in your daily life? Prepare a hand-drawn or digital Mind Map (of A4 size) to present your ideas. *For Digital Mind Maps, any software can be used.*
2. Save the Mind Map in PDF/JPG format.
3. Submit through the allotted Assignment in MS Teams.

Task II: Write a letter/ an email to future self

1. Imagine about your future in next 10 years (relate with AI).
2. Type a letter or an email to your future self about what you want to see in the future or what you want to remind to your future.
3. The following points can be included in letter/email:
 - a. Start with your interests, hobbies, and skills.
 - b. Relate how AI can help you
 - c. Write about your career you want to pursue and how AI will make an impact on that.
4. Save the letter/ email in PDF format.
5. Submit through the allotted Assignment in MS Teams.

Task III: AI and Fun

1. Play/Observe the given AI Games/Experiments to learn and understand how AI works.
 - a. <https://research.google.com/semantis/>
 - b. <https://experiments.withgoogle.com/quick-draw>
 - c. <https://semiconductor.withgoogle.com/>
 - d. <https://www.scroobly.com/>
 - e. <https://emojiscavengerhunt.withgoogle.com/>
 - f. <https://experiments.withgoogle.com/bird-sounds>
 - g. <https://code.org/oceans>

ENGLISH HOLIDAY HOMEWORK

CLASS IX (2021-22)

1.PROJECT WORK (INDIVIDUAL)

Do a thorough research on one of the following famous personalities and make a PowerPoint Presentation (10-15 slides) or Scrap File(10-15 Sheets). Your reading should go beyond the textbook.

- i) Bismillah Khan**
- ii) Evelyn Glennie**
- iii) Santosh Yadav**
- iv) Maria Sharapova**

Your presentation may include the following pointers:

- i) When and where was the person born?
- ii) Family , childhood years and early experiences.
- iii) What and why is this person famous?
- iv) What problems/ challenges did they have to overcome?
- v) Career as an adult.
- vi) Who was their inspiration and how they inspire others?
- vii) Achievements, Awards and Recognitions.
- viii) Famous quotes from this person
- ix) Excerpt from their famous speech or interview.
- ix) When, where and why did the person die? (only applicable to Bismillah Khan)
- x) Any other point you want to include.

Assessment Criteria:

1. Content
2. Precise
3. Clarity in presenting details
4. Usage of Tools_ transitions, animation etc.

2. STORY MAP

Read the chapter 'The Little Girl'. Based on your understanding of the chapter, present the highlights of the story in the given format.



3. MAKING A QUIZ USING KAHOOT

Frame 10 MCQ's from the following chapters (Mentioned below) using <https://kahoot.com>. Each question should have four options and the question bank or quiz should cover quotation/extract, vocabulary, True/false(2 options), opinions/facts based questions.

- i) The Lost Child (Moments)(Roll no. 1 to 30)
- ii) The Adventures of Toto (Moments)(Roll no. 31-till end)

4. HIGHLIGHTS OF MY BREAK

To say that life has changed in this pandemic is an understatement. We are living in unimaginable times, coping with making sense of things. It is famously said ‘When life throws lemons at you, make a lemonade.’ Keeping the spirit of optimism in our hearts let’s try to make most of our times at home. Learn something new, enter an uncharted territory (METAPHORICALLY) , do something we thought we were hitherto incapable of doing. Record the highlights of your summer break in the following way.

HIGHLIGHTS OF MY BREAK



SOMETHING FUN	SOMETHING NEW	SOMETHING SURPRISING

SOMETHING SPECIAL	SOMETHING CRAZY	SOMETHING KIND
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5. WORKING ON READING, INTEGRATED GRAMMAR AND WRITING SKILLS

Read and complete the first three units (UNIT 1 -3) of your English Workbook ‘ Words and Expressions’.

NOTE: ALL QUESTIONS MUST BE DONE IN WRITING SKILL NOTEBOOK AND NEED TO BE UPLOADED ON TEAM_HOLIDAY HOMEWORK_ASSIGNMENT

**DAV Public School ,Sreshtha vihar
Holidays Homework (2021-22)**

French,Class-IX

- 1) Préparez une affiche sur la période pandémie de COVID-19 en utilisant des images et des expressions.**
- 2) Préparez le graphique du vocabulaire en utilisant des mots utilisés dans l'affiche au dessus.**
- 3) Ecoutez la musique française et regardez la télé TV5 le monde.**

French,Class-X

- 1) Ecrivez une lettre à votre ami en discutant la période pandémie de COVID-19.**
- 2) Préparez le graphique du vocabulaire en utilisant des mots utilisés dans la lettre au dessus.**
- 3) Complétez la leçon -1 dans votre cahier d'exercices.**
- 4) Ecoutez la musique française et regardez le télé TV5 le monde.**

ग्रीष्मकालीन गृह-कार्य

2021-22

विषय। -- हिंदी

प्रश्न (१) पाठ 'दुख का अधिकार' पढ़िए और उस पाठ में जिन समस्याओं को उठाया है, उसे

अपने शब्दों में लिखिए। बताइए कि आप इस कहानी का अंत कैसे करते?

प्रश्न (२) पाठ 'रहीम के दोहे' पढ़िए और मानव जीवन में रहीम दोहे की प्रासंगिकता के विषय पर

अपने विचार लिखिए।

प्रश्न (३) महादेवी वर्मा द्वारा लिखित 'गिल्लू', 'सोना' और 'गौरा' रचनाएं पढ़िए और उसके विषय में अपने

विचार लिखिए।

प्रश्न (४) दिए गए संकेत-बिंदुओं के आधार पर 'करोना-काल और बाजारवाद' इस विषय पर अपने विचार २००-२५० शब्दों में लेख के रूप में लिखिए।

*करोना महामारी

*बचाव हेतु संसाधन

*आर्थिक स्थिति

*सरकार एवं मीडिया

*दम तोड़ते लोग

*बाजारवाद का प्रभाव

प्रश्न (५) कोरोना महामारी से बचाव हेतु, लोगों में जागरूकता उत्पन्न वाले विषय पर, नारा लेखन कीजिए।

(कोई पांच)।

CLASS – IX HOLIDAYS HOMEWORK

SUBJECT - MATHEMATICS

MATHS PROJECT

1 Make Project on **History of Numbers** in the form of

Powerpoint Presentation, Sway or Project File.

2. Watching IPL matches is a real fun , lets utilize it by collecting the data on runs scored in each over for a match and obtain frequency distribution between runs and over for both teams.

Represent in the form of HISTOGRAM . (FINAL MATCH OF IPL)

3. Make model/working model on algebraic identities;

(Any one)

1. $(a+b+c)^2 = a^2+b^2+c^2+2ab+2bc+2ca$

2. $(a-b)^2 = a^2- 2ab+b^2$

3. $a^2 - b^2 = (a+b) (a-b)$

अवकाश हेतु गृहकार्यम्
कक्षा नवमी 2021-2022

विषय संस्कृत

1. शब्दरूपाणि

बालक, साधु, मुनि, पितृ

लता, मति, नदी, मातृ

फल, अस्मद्, युष्मद्

किम् और तत् (तीनअं लिंगअं में)

2. धातु रूपाणि

पठ्, गम् (गच्छ्), वद्, भू (भव्)

क्रीड्, नी (नयति), दृश् (पश्य), अस्, कृ, पा (पिब)

त्यज् और स्था (तिष्ठ्)

पांचअं लकारअं में (लट्, लृट्, लङ्, लोट् और विधिलिङ् लकार)

3. संख्या 1 से 50 तक लिखो और याद करो ।

4. श्रेमूषी पुस्तक से -

पाठ 2, 3 और 4 को पढ़ो

और प्रत्येक पाठ से 15-15

कठिन शब्दार्थ लिखिए ।

Word meaning

पाठअं के अंत में दिए गए हैं ।

5. इन तीनअं पाठअं में से उपसर्ग युक्त शब्दअं को छांटकर लिखिए ।

उपरोक्त सभी काम संस्कृत

Notebook में करना है ।

DAV PUBLIC SCHOOL, SRESHTHA VIHAR

Class-9

HOLIDAY HOMEWORK

PHYSICS

I. Read the chapter 'MOTION' thoroughly and based on your understanding, solve the following assignment in your Homework Notebook

ASSIGNMENT

1. The ratio of displacement to distance is
 - a) Always less than 1
 - b) Always greater than 1
 - c) Always equal to 1
 - d) Either less than or equal to 1

2. What is the relation between distance and displacement.
 - a) Distance is always less than displacement
 - b) Distance is always greater than displacement
 - c) Distance is always equal to displacement
 - d) None of the above

3. If the distance travelled is zero, the displacement
 - a) must be zero
 - b) may or may not be zero
 - c) cannot be zero
 - d) depends on the particle

4. A motorist drives north for 35 minutes at 85 km/h and then stop for 15 minutes. He next continues north, travelling 130km in 2 hours. What is his displacement?
 - a) 85 km
 - b) 179.6 km
 - c) 20 km
 - d) 140 km

5. In which of the following cases of motions, the distance moved and magnitude of displacement are equal ?
 - a) If the car is moving on straight road
 - b) If the car is moving in circular path
 - c) The pendulum is moving to and fro
 - d) The earth is revolving around the Sun

6. A person moves along the boundary of a square park of side 10m in 40s. What will be the magnitude of displacement of that person at the end of 2 minutes 20 seconds ?

7. The minute hand of a clock is 7 cm long. Calculate the distance covered and the displacement of minute hand of the clock from 9.00 AM to 9.30 AM.

II. Write the following experiments in your Physics lab file: (Draw the observation table with pencil on LHS of your file .Calculations to be done on LHS at the time when you will perform the experiment. (You don't need to write readings in observation table as it would be done in class after holidays) Aim , material required/ Apparatus ,conclusions ,sources of errors and precautions to be written on RHS of your file with blue gel pen)
Experiment No. 1 : To determine the density of a solid (denser than water) by using a spring balance and a measuring cylinder.

CHEMISTRY

1) Read the Chapter - Is Matter Around Us Pure and write down all important definitions and new terminology

2) Write the experiment from lab manual in chemistry practical file for experiment :

To distinguish between properties of solutions, colloids and suspensions on the basis of transparency, filtration and stability .

Aim, material required, sources of error / precaution should be written on RHS (with blue pen) and observation table to be made on LHS (With Pencil)

ACTIVITY TIME:

1) Take 50 ml of water in two separate containers. Make a saturated solution of salt in it by adding salt. Now bring to boil the two solutions namely 1 and 2 on high and low flame separately . (To be done under parents supervision). observe as the mixtures boil and answer the following questions:

a) If 1 teaspoon measures 5g how much salt was needed approximately to make a saturated solution?

b) Could you separate out salt from water by boiling?

c) in how much time u could separate salt from water in solution 1 and in solution 2?

d) In which case you got the salt first - when you heated the solution on high flame or low ? Why?

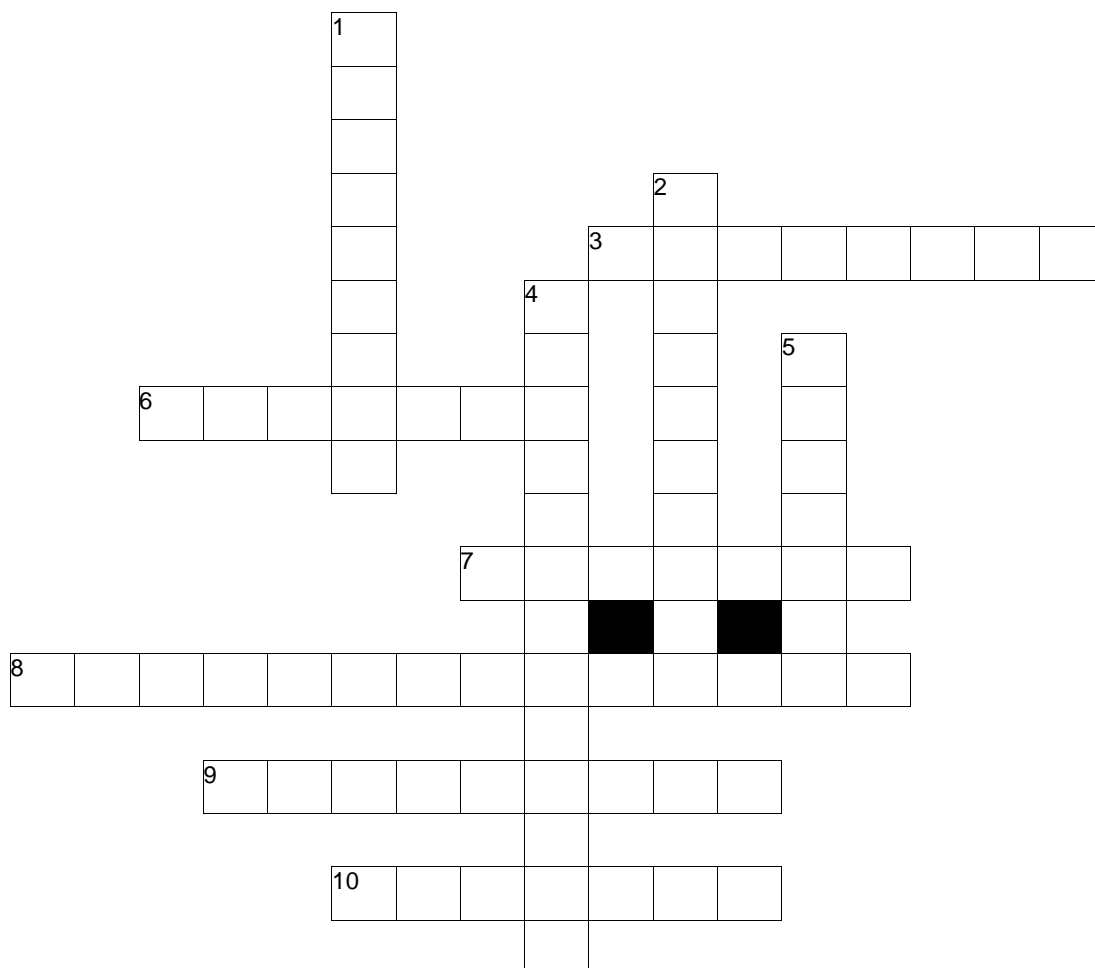
e) Can you establish a relation between rate of evaporation and temperature from above activity? If yes, what is the relation between rate of evaporation and temperature?

e) Could you add more salt in the saturated mixture as the mixture heated up? Why?

Note: Above activity to be done in notes copy .Also paste a selfie of yours while performing an activity in notes copy

Name: _____

Crossword Puzzle :Is Matter Around Us Pure?



Across

3. The separation of particles in a liquid due to their ability to pass through a membrane.
6. A substance microscopically dispersed evenly through another substance.
7. A small amount of something that remains after the main part has been used.
8. Substances that are made of only one type of atom together or one type of molecule.
9. Separation of mixtures by removing a layer of liquid.
10. A gaseous suspension of fine solid or liquid particles.

Down

1. A material or membrane that allows liquids or gasses through it.
2. The action or process of filtering something.
4. The process of settling or being deposited as a sediment.
5. A substance made by mixing other substances

BIOLOGY

- **Let us Explore:** Ever wondered why do our fingers prune when immersed in water? What happens when salt is sprinkled over salad?



It is because of an amazing phenomenon of **osmosis**.

- *Read and explore more about it and identify day to day applications of osmosis.
 - *Perform a simple experiment of osmosis using any item easily available in your home, there are ample things in your kitchen which can be used.
 - * Shoot a video (1-2minutes) explaining your set up, observation and inference / Take pictures and make collage/Summarize your experiment in biology notebook.
- Read the chapter “The Fundamental Unit of Life” thoroughly and based on your understanding, attempt the following assignment in your Homework Notebook.

Assignment

1. Colourless plastids are known as:
 - (a) Chromoplasts
 - (b) Chloroplasts
 - (c) Leucoplasts
 - (d) Protoplast
2. The phenomenon by which protoplast of a cell shrinks from the wall is:
 - (a) Osmosis
 - (b) Plasmolysis
 - (c) Diffusion
 - (d) Glycolysis
3. Which of the following are examples of prokaryotes?

- (a) Algae
- (b) Fungi
- (c) Bacteria
- (d) Protozoa

4. The barrier between the protoplasm and the outer environment in an animal cell is:

- (a) Cell wall
- (b) Plasma membrane
- (c) Nuclear membrane
- (d) Cytoplasm

5. Ribosomes are the site of:

- (a) Photosynthesis
- (b) Respiration
- (c) Protein synthesis
- (d) Absorption

6. Why do raisins swell up when placed in water? Name the phenomenon. When swollen raisins are put in concentrated sugar solution what will happen to them? Perform the experiment and write your observation.

7. Mention any two points of difference between cell wall and cell membrane.

8. Name the organelles which show the analogy written as under:

- I. Transporting channels of cell.
- II. Powerhouse of cell.
- III. Packaging and dispatching unit of cell.
- IV. Digestive bag of cell.
- V. Storage bag of cell.
- VI. Kitchen of cell.
- VII. Control room of cell.

9. Why plant cells are more rigid than animal cells?

10. Draw neat, labeled diagrams of Plant cell and Animal cell.

➤ Record the following experiments in your Biology Practical File.

- 1. Prepare temporary mount of onion peel and record observations and draw labelled diagrams.
- 2. Prepare temporary mount of human cheek cells and record observations and draw labelled diagrams.

HOLIDAYS HOME WORK 2021-2022

CLASS IX (SOCIAL -SCIENCE)

LEARNING OUTCOMES:

Students will be able to

1. Appreciate the ideals of democracy and the importance of rules and laws included in the constitution of India
2. Develop the map skills to identify and locate the various regions/ states of India and different countries of the world
3. Realise the need and methods of conservation of resources.
4. Explain the meaning and importance of agriculture and types agriculture practised in India.

I. **READ** the following chapters and **PREPARE** chapter wise glossary.

History- Chap .1 French Revolution
Chap. 2 Russian Revolution

Political science- Chap. 1 What is democracy? Why democracy?
Chap. 2 Constitutional design

Economics- Chap. 1 The story of village Palampur

Geography- Chap 1: India- location and size.

Note: Difficult words should be underlined and meaning should be written in textbook or notebook.

II Prepare **OBJECTIVE TYPE QUESTIONS** for the above mentioned chapters:

Section-wise distribution for this activity (Group Activity)

Class	Chapter
IX A	French Revolution
IX B	Russian Revolution
IX C	What is democracy? Why democracy?

IX D	Constitutional design
IX E	The story of village Palampur
IX F	India- location and size

Note: 1. Objective Type Questions Must Cover the Following Categories of Questions

- One word
- Fill ups
- Assertion and Reasoning
- MCQ
- True and False
- Match the following
- Correct Sequence
- Defining terms

2. These Objective Type questions should be typed with answer key on **Ms Word**.

III. Attempt all the **ASSIGNMENTS QUESTIONS** from the term chapters. Solve the assignments in the respective subject class work registers/notebooks.

Note: A separate subject wise assignment folder will be shared on WhatsApp.

IV. Prepare a **MAP ALBUM** of the following maps

- Political map of India indicating states and capitals.
- Physical map of India showing major physical features.
- Physical map of India showing the different soil types.
- World map showing the axis and the Allied powers.
- European map having the major European countries with their capitals.

Note: *Map album should be compiled in the Class work register.

*History / geography maps will be shared on your WhatsApp groups for reference.

* Refer to the Class IX syllabus by CBSE for map items that need to be covered.

V. **Project on disaster management**

Guidelines for the Project:

Compulsory project of 5 marks.

The distribution of marks over different aspects relating to project work is as follows:-

<i>S.NO.</i>	<i>Aspects</i>	<i>Marks</i>
<i>1</i>	<i>Content accuracy, originality and analysis</i>	<i>2</i>
<i>2</i>	<i>Presentation and creativity</i>	<i>2</i>
<i>3</i>	<i>Viva Voice</i>	<i>1</i>

The Project Report should be handwritten by the students themselves.

Topics to be covered:-

- 1. Aims and objective*
- 2. Causes of disaster*
- 3. Effect of disaster*
- 4. Any one case study*
- 5. Preventive, Preparedness among the community, Response and Rescue measures*
- 6. Innovative Suggestions.*

VI. ART INTEGRATION / EXPERIENTIAL LEARNING ACTIVITY

Identify and then paste the pictures of 15 women members of the Indian Constituent Assembly.

Write their significant role in framing of the Indian constitution

NOTE: Entire work of Social science will be graded for the internal assessment.