

HOLIDAY ENGAGEMENT

CLASS IX

Dear Children and Parents,

It is summer time, I hope you would enjoy your holidays to the best of your capacities. Holidays are time when you can connect with your child in many ways. As parents are the first and the most important teacher for a child, we can encourage our child to participate in many educational activities at home and promote his/her quest to learn. Working together will not only help your child to build, learn and develop his/her skills but also strengthen your bond with him/her.



- Spend good time with your family.
- Try to do your written work regularly to enhance your writing skills.
- Pay special attention towards your health and wellbeing.
- Don't play in the sunshine or in hot places.

General Instructions:

- All the work is to be done as per the instructions given by the concerned subject teacher.
- It should be done in a neat and clean manner.
- The homework of all the subjects must be kept properly for submission.
- Read the homework carefully before starting it.
- Please follow the instructions given in all the subjects.

- For any doubts you may contact the concerned teacher through the phone number given at the end of the holiday assignment.
- All the Homework will be marked and assessed, so it is **COMPULSORY**, to complete all the homework for all the subjects.

It's **SUMMER TIME** again. Time for strengthening family bond, tying threads of family tree, sharing joys and sorrows, having a good time together. Do shower your love and care on people you meet and get loads of blessings in return.

Take good care of your health and hygiene. Avoid heavy and oily food and increase intake of fresh fruits and water to keep yourself well hydrated and energetic. Use Holiday Homework as an opportunity to spend quality time together. Let your child take the lead and use his/ her imagination, creativity and knowledge to do the assigned task. The role of the parent is to be a facilitator and guide to steer the child in the right direction. He/ She will find his own destination. Original work of students will receive greater recognition and appreciation.

ENGLISH:



1. A. Read any fictional book of your choice and write a brief review on it.
Hint: Author- Plot- Characters-your opinion-conclusion

B. Throw some light on the topics given below. Collect few pictures and paste them in your notebooks and comment on it in 120-150 words.
 - a. Impact of the rising pollution levels in India
 - b. Is technology a bane or a boon**Max. pages : 4**
Where to do : English Notebook
2. Design a Brochure on Bihar's much celebrated event "THE SONEPUR CATTLE FAIR", which is known to be the largest cattle fair in Asia. Prepare a creative brochure on the topic and present your information with short facts and pictures. You can design either digital or manual brochure on A4size sheet.
Max. pages: 4
Where to do: A4 size sheets attached in white milky file
3. Prepare a vocabulary list by selecting five words each from the genre given below-
- Travel. - Sports. - Plantation. -Baking.

Write down a minimum of any ten words from the list, with meaning to enhance the vocabulary.

Where to do : English Notebook

WORKSHEET

A. Reading comprehension

1. Many people believe that science and religion are contrary to each other. But his notation is wrong. As a matter of fact, both are correlated to each other. There is no doubt that the method of science and religion are different.

2. The method of science is observation, experimentation and experience. Science takes its recourse to progressive march towards perfection. The rules of religion are faith, intuition and spoken word of the enlightened. In general, while science is inclined towards reason and rationality, spiritualism is the essence of religion.

3. In earlier times when man appeared on Earth, he was over-awed at the sight of violent and powerful aspects of nature. In certain cases, the usefulness of different natural objects of nature overwhelmed man. Thus began the worship of forces of nature — fire, the sun, the rivers, the rocks, the trees, the snakes etc. The holy scriptures were written by those who had developed harmony between external nature and their inner self. Their objective was to enable, elevate and liberate the human spirit and mind. But the priestly class took upon itself the monopoly of scriptural knowledge and interpretation to its own advantage.

4. Thus, the entire human race was in chains. Truth was flouted and progressive, liberal and truthful ideas or ideas expressing doubt and scepticism were suppressed and their holders punished. It was in these trying circumstances the science emerged as a saviour of mankind. But its path was not smooth and safe. The scientists and free thinkers were tortured. This was the fate of Copernicus, Galileo, Bruno and others. But side by side science gained ground.

Based on your understanding of the passage, answer any eight out of ten questions by choosing the correct option.

1. What are the reasons for man worship the forces of nature?

2. What was the objective of the authors of the holy scriptures?

3. According to the passage, what is the need at present juncture?

4. Why is it said in the passage that, "science emerged as a saviour of mankind"?

5. Truth was:

(a) Flouted. (b) Progressive (c) Both (a) and (b) (d) None of these

6. Find the synonym of the word 'belief' used in paragraph 2.

(a) Observation (b) Experience (c) Faith. (d) Enlightened

7. Find the synonym of the word 'show up' used in paragraph 3.

(a) Appear. (b) Scripture (c) Developed (d) Usefulness

8. Find the antonym of the word 'non contradictory' used in paragraph 1.

(a) Believe (b) Each (c) Method (d) Contrary

B. Context Clues-

Context clues are words in the sentences that help you figure out the meaning of a difficult word that you do not know.

Influence
support
opportunity

height
available

audience
instrument

convince

Read the words in the box below. Write each word where it belongs.

1. The teacher had great _____ over his students.
2. That boy has a great _____ to learn.
3. Did you know when the movie will be _____.
4. Do you think I have the _____ to succeed.
5. The play was performed in front of the _____.
6. Did you measure your _____ when you grew up ?
7. I hope your teachers _____ you.
8. She had to _____ her mom to let her go.

C. Fill in the verbs in past simple.

1. Harry Potter ____ (be) a very special boy. He ____ (not know) he was a young wizard. His hair ____ (be) black and his eyes ____ (be) green. He ____ (have) a scar on his forehead. He ____ (live) with his uncle, aunt and cousins in a small house. He ____ (not be) happy to live there because they ____ (not love) him. On the contrary, they ____ (hate) him.
2. One day, he ____ (get) a letter from Hogwarts School of Witchcraft and Wizardry. He ____ (become) a new student of the School. How amazing was that ! But his uncle and aunt ____ (not want) to have a wizard in the family, so they ____ (take him) to a lonely island.
3. Rubeus Hagrid ____ (rescue) Harry and they ____ (go) to Diagon Alley. There they ____ (visit) the bank where Harry's parents ____ (leave) a lot of money for their son before they ____ die. Harry ____ (buy) new clothes, books and a wand. Hagrid ____ (buy) a new pet for him, too. It ____ (be) an Owl. Harry ____ (give) her the name Hedwig.
4. After that, Harry ____ (go) to school by train from platform 9 and $\frac{3}{4}$ for the first time. He ____ (not know) how to do it, so he ____ (ask) a woman with many children and she ____ (help) him. Later, it ____ (show) that the kind lady ____ (be) Ron's mother.

D. Find the Mistakes.

1. My freinds and I am good at surfing.
2. Where does you come from?
3. Yesterday i meet Helen at the Library.
4. Have you a brother or a sister.
5. I read usually before i go to bed.

Where to do : English Notebook



HINDI:



बिहार राज्य की जीवन शैली, खान - पान, रहन - सहन और कार्य शैली का सचित्र वर्णन कीजिए। (संकेत बिंदु - वेशभूषा, बोली, व्यवसाय)

अभ्यास कार्य

प्रश्न 1) निम्नलिखित वाक्यांशों की व्याख्या कीजिए

क) बंद दरवाजे खोल देना

ख) निर्वाह करना

ग) भूख से बिलबिलाना

प्रश्न 2) नीचे लिखी पंक्तियों का भाव स्पष्ट कीजिए:

क) जैसे चितवत चंद्र चकोरा

ख) जाकी जोति बरै दिन राती

प्रश्न 3) निम्नलिखित शब्दों में उचित स्थान पर बिंदु (अनुस्वार) चंद्रबिंदु (अनुनासिक) लगाकर शब्द फिर से लिखें:

क) चाद

ख) ऊट

ग) हीग

घ) सीग

ङ) काच

प्रश्न 4) अपने मित्र को ग्रीष्मावकाश अपने साथ बिताने का निमंत्रण देते हुए पत्र लिखिए।

प्रश्न 5) स्वास्थ्य मंत्रालय द्वारा योग दिवस के अवसर के प्रचार प्रसार के लिए एक आकर्षक विज्ञापन लगभग 60 शब्दों में तैयार कीजिए।

MATHEMATICS:



Q 1. Square Root spiral.

Q 2. Conduct a Survey of your friends to find which kind of game [indoor/outdoor] they like. Represent it in the form of:

- a. Pie Chart
- b. Bar Graph

Q 3. Design a crossword puzzle with minimum 10 questions.

Q 4. Bring some article, amazing facts, riddles, recent discoveries in the field of mathematics.

Q 5. Prepare a project report about Indian state Bihar. The report should comprise following details

1. Location on the political map of India (Highlights using colour).

Draw a table to compare following information about Bihar with Madhya Pradesh, Gujarat, Kerala, Himachal Pradesh and West Bengal.

2. Areas

3. Per capita income of the states

4. Population of the states

5. Draw three bar graphs depicting Area, Per capita income and population of Bihar with Madhya Pradesh, Gujarat, Kerala, Himachal Pradesh and West Bengal.

WORKSHEET

Q1. Tick the correct answer.

1. Which of the following is not a rational number?
 1. $\sqrt{2}$
 2. $\sqrt{4}$
 3. $\sqrt{9}$
 4. $\sqrt{16}$
2. The number $(3-\sqrt{3})/(3+\sqrt{3})$ is
 1. Rational
 2. Irrational
 3. Both
 4. can't say
3. $(3+\sqrt{7})/(3-\sqrt{7}) = a + b\sqrt{7}$ then (a,b)=
 1. (8,-3)
 2. (-8,-3)
 3. (-8, 3)
 4. (8, 30)

4. $7^0 + 9^0 + 8^0 = \underline{\hspace{2cm}}$

1. 0
2. 7
3. 1
4. 3

5. $(9^2 \div 3^2) \times (10^2) = \underline{\hspace{2cm}}$

1. 8100
2. 4900
3. 1300
4. 1000

Q2. Find the value of each of the following:

- a. $(16)^{1/4}$
- b. $(625)^{-3/4}$
- c. $53/2 \div 23/2$
- d. $(81)^{3/4}$

Q3. Prove that $\sqrt{3} + \sqrt{5}$ is a rational number.

Q4. Find three irrational numbers between two rationals $1/7$ and $2/7$.

Q5. Represent $\sqrt{8.3}$ on number line.

Q6. Show that $0.3333..... = 0.3\bar{3}$ can be expressed in the form p/q , where p and q are integers and $q \neq 0$.

Q7. Evaluate:

- (i) $(5/9)^{-2} \times (3/5)^{-3} \times (3/5)^0$
- (ii) $(-3/5)^{-4} \times (-2/5)^2$
- (iii) $(-2/3)^{-3} \times (-2/3)^{-2}$

Q8. Evaluate:

- a) $\{(1/3)^{-3} - (1/2)^{-3}\} \div (1/4)^{-3}$
- b) $\{(4/3)^{-1} - (1/4)^{-1}\}^{-1}$
- c) $[5^{-1} \times 3^{-1}]^{-1} \div 6^{-1}$

Q9. Find the value of x for which $(5/3)^{-4} \times (5/3)^{-5} = (5/3)^{3x}$

Q10. Find the value of x for which $(4/9)^4 \times (4/9)^{-7} = (4/9)^{2x-1}$

Q11. Rationalise the following :

- a) $2 / 3\sqrt{-1}$
- b) $1 / \sqrt{7} - \sqrt{6}$
- c) $5 / \sqrt{3} - \sqrt{5}$

Q12. Simplify and find the value of:

- (a) $(729)^{16} \div (729)^{16}$
- (b) $(64)^2 \div (64)^{23}$
- (c) $(243)^{65} \div (243)^{65}$
- (d) $(21)^{32} \times (21)^{52} \div (21)^{32} \times (21)^{52}$
- (e) $(81)^{13} \div (81)^{112}$

Q13. Answer the following questions.

1) Assertion: every integer is a rational number.

Reason: every integer is expressed in the form of $m/1$ so it is rational number.

- a.) Both Assertion and Reason are correct and Reason is the correct explanation for Assertion.
- b.) Both Assertion and Reason are correct and Reason is not the correct explanation for Assertion.
- c.) assertion is true but the reason is false.
- d.) both assertion and reason are false.

2) Assertion: $\sqrt{5}$ is an irrational number.

Reason: A number is called irrational, if it cannot be written in the form p/q , where p and q are integers and $q \neq 0$.

- a.) Both Assertion and Reason are correct and Reason is the correct explanation for Assertion.
- b.) Both Assertion and Reason are correct and Reason is not the correct explanation for Assertion.
- c.) assertion is true but the reason is false.
- d.) both assertion and reason are false.

3) Assertion: 0.468 is a terminating decimal.

Reason: A decimal in which a digit or a set of digits is repeated periodically, is called a repeating, or a recurring decimal.

- a.) Both Assertion and Reason are correct and Reason is the correct explanation for Assertion.
- b.) Both Assertion and Reason are correct and Reason is not the correct explanation for Assertion.
- c.) assertion is true but the reason is false.
- d.) both assertion and reason are false.

4) Assertion :every whole number is not a natural number.

Reason: zero is whole number but not natural number.

- a.) Both Assertion and Reason are correct and Reason is the correct explanation for Assertion.

b.) Both Assertion and Reason are correct and Reason is not the correct explanation for Assertion.

c.) assertion is true but the reason is false.

d.) both assertion and reason are false.

5) Assertion: Every rational number is an integer.

Reason: $3/5$ is not an integer.

a.) Both Assertion and Reason are correct and Reason is the correct explanation for Assertion.

b.) Both Assertion and Reason are correct and Reason is not the correct explanation for Assertion.

c.) assertion is true but the reason is false.

d.) both assertion and reason are false.

6) Assertion: $\sqrt{2}$ is a irrational number.

Reason: it can not be written inthe form of p/q .

a.) Both Assertion and Reason are correct and Reason is the correct explanation for Assertion.

b.) Both Assertion and Reason are correct and Reason is not the correct explanation for Assertion.

c.) assertion is true but the reason is false.

d.) both assertion and reason are false.

Q. 7 The brakes applied to a car produce an acceleration of 6 m/s^2 in the opposite direction to the motion. If the car takes 2 s to stop after the application of brakes, calculate the distance it travels during this time.

A. 12 m.

Q. 8 A car moving along a straight highway with speed of 126 km/h is brought to a stop within a distance of 200 m. What is the retardation of the car?

A. -3.06 m/s^2 .

Q. 9 A car starts from rest with a uniform acceleration of 0.5 m/s^2 . What will be its velocity when it has travelled a distance of 25 m? How many seconds will it take to cover this distance?

A. 5 m/s , 10 s.

Q. 10 A runner runs 100 m in 10 s then turns around and jogs 50 m back towards the starting point in 30 s. Find his (i) average speed (ii) average velocity A. 3.75 m/s , 1.25 m/s

Note: Worksheet to be done in Physics Classwork Notebook.

CHEMISTRY:

- Take 5 ml of water in a bowl and keep it near a window or under a fan.
- Take 5 ml of water in an open plate and keep it near a window or under a fan.
- Take 5 ml of water in an open plate and keep it inside a cupboard or on a shelf in your class.
- Record the room temperature.
- Record the time or days taken for the evaporation process in the above cases.
- Repeat the above three steps of activity on a rainy day and record your observations.
- What do you infer about the effect of temperature, surface area and wind velocity (speed) on evaporation? Act 1.14, pg9.

- IV. What are the main causes of the French Revolution?
- V. Draw up a list of democratic rights we enjoy today whose origins could be traced to the French Revolution?
- VI. Describe causes for the fall of Jacobin government in France.
- VII. What is the significance of India's central location?
- VIII. Why is Indian Ocean named after India? Mention any three reasons.
- IX. 'India has had strong geographical and historical links with her neighbours'. Explain the given statement with suitable example.
- X. Read the extract given below and answer the following questions:
- On the morning of 14 July 1789, the city of Paris was in a state of alarm. The king had commanded troops to move into the city. Rumours spread that he would soon order the army to open fire upon the citizens. Some 7,000 men and women gathered in front of the town hall and decided to form a peoples' militia. They broke into a number of government buildings in search of arms. Finally, a group of several hundred people marched towards the eastern part of the city and stormed the fortress-prison, the Bastille, where they hoped to find hoarded ammunition. In the armed fight that followed, the commander of the Bastille was killed and the prisoners released – though there were only seven of them. Yet the Bastille was hated by all because it stood for the despotic power of the king. The fortress was demolished and its stone fragments were sold in the markets to all those who wished to keep a souvenir of its destruction. The days that followed saw more rioting both in Paris and the countryside. Most people were protesting against the high price of bread. Much later, when historians looked back upon this time, they saw it as the beginning of a chain of events that ultimately led to the execution of the king in France, though most people at the time did not anticipate this outcome.
- a. On 14th July, 1789 the people of the _____ estate attacked the Bastille prison and freed all the prisoners signalling the start of the _____.
i. first, civil war
ii. fourth, Russian war
iii. second, movement
iv. third, revolution
- b. Which of the following statement is incorrect?
i. The Bastille was the fortress-prison.
ii. The Bastille stood for the democratic power of the king.
iii. On the morning of 14 July 1789, the people of Paris stormed Bastille
iv. All are correct
- c. In the question given below, there are two statements marked as Assertion (A) and Reason (R). Read the statements and chose the correct option:
Assertion (A): The people of France storm the Bastille.
Reason (R): They were hopeful to find King Louis XVI and commander of the Bastille there.

1. Both A and R are correct and R is the correct explanation of A.
2. Both A and R are correct but R is not the correct explanation of A.
3. A is correct but R is wrong.
4. Both A and R are wrong.

- d. What was the immediate cause of the riots in Paris?
- i. Atrocities by the commander
 - ii. The high price of bread
 - iii. The killing of women and children
 - iv. All of these

- XI. Locate the following on the Political Map of India:
- a. States through which the Tropic of Cancer passes.
 - b. The island group lying in the Arabian Sea.
 - c. The Northernmost Latitude of India.
 - d. The island group lying in the Bay of Bengal.
 - e. The place lying on the three seas.

Q 2. Create a campaign poster to create awareness about precautionary measures that can be taken before any disaster.

Q 3. Make a project file on the social diversity of Bihar, which should include the following points:

- a. Acknowledgement
- b. About Bihar
- c. Bihar Map
- d. Bihar's people and culture
- e. Bihar language
- f. Bihar districts
- g. Bihar's Population
- h. Minerals found in Bihar
- i. Land distribution in Bihar
- j. Conclusion
- k. Bibliography

***Note: Worksheet to be done in the classwork Notebook.**

COMPUTER:



Using MS-Word design a tourism brochure for any five tourist locations of Bihar considering the following points:

1. Name of the location
2. Brief description of the place
3. Insert Picture of the place
4. Guide best way to reach there (Through Road, Rail or Airways)

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TEACHER'S DETAILS:

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