

HOLIDAY HOMEWORK

CLASS IX

English

1. Diary Entry

Write a diary entry from the grandmother's perspective expressing her feelings about learning to read.

2. Letter Writing:

Write a letter to an elder expressing gratitude and the importance of education (100-120 words)

3. Comic Strip (Grammar Activity)

Create a comic strip (6-8 frames) showing correct and incorrect use of Subject-Verb Agreement.

4. Tense Chart

Prepare a creative chart showing Past, Present and Future tenses with examples.

5. Reflective Paragraph

Write on 'Education has no Age Limit'.

Homework must be done neatly in a separate file.

Shivani

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Hindi

लिखित कार्य -

1. मुंशी प्रेमचंद के उपन्यासों की सूची चित्र सहित तैयार करें। (मॉडल)
2. परशुराम- लक्ष्मण संवाद पर एक चित्रात्मक मॉडल तैयार करें।
3. समानार्थी, उपसर्ग- प्रत्यय, मुहावरे, में से किसी एक विषय पर रचनात्मक मॉडल तैयार करें।

4. पाठ्यपुस्तक के किसी एक कवि या लेखक पर पीपीटी प्रेजेंटेशन तैयार करें। (10 स्लाइड)

मौखिक कार्य-

शब्द- भंडार, उपसर्ग- प्रत्यय, मुहावरे तथा दो बैलों की कथा का पाठ के प्रश्न- उत्तर कंठस्थ करें।



Maths

HOLIDAY HOMEWORK – CLASS 9 (MATHEMATICS)

Make a separate homework copy (small, 100 pages) and do the following:

A) Learn and write squares and cubes: 1 to 20

B) Do the following questions:

Find 6 rational numbers between $\frac{3}{5}$ and $\frac{4}{7}$.

Find four rational numbers between $\frac{1}{3}$ and $\frac{1}{4}$.

Find 3 irrational numbers in decimal form between $\frac{6}{7}$ and $\frac{2}{3}$.

Express in p/q form:

a) 0.292929...

b) 0.345345345...

Rationalize the denominator:

a) $\frac{1}{5 + 3\sqrt{2}}$

b) $\frac{3}{\sqrt{5} - \sqrt{3}}$

Find the value of a and b:

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

Simplify:

$$\frac{3}{5 - \sqrt{3}} + \frac{2}{5 + \sqrt{3}}$$

Simplify:

$$(81/16)^{-3/4} \times (25/9)^{-3/2} \quad (81/16)^{-3/4} \times (25/9)^{-3/2}$$

Evaluate:

a) $(64/25)^{-3/2}$

b) $(243/32)^{-4/5}$

Factorise:

a) $x^2 + 14x + 48$

b) $2x^2 - 7x - 39$

If $x - 2$ is a divisor of $p(x) = 3x^2 - kx + 10$, find k .

Find k such that $(x + 2)$ is a factor of:

$$f(x) = 2x^3 + kx^2 + x - 10$$

Factorise:

$$2x^3 + 7x^2 - 3x - 18$$

Represent $\sqrt{5}$ on number line.

Represent $\sqrt{11.4}$ on number line.

2. Prepare a model/chart on any one topic:

- Number System (Types of Numbers)
- Square Root Spiral with shape of peacock
- Laws of Exponent
- Algebraic Identities
- Types of Polynomials

3. Complete Classwork copy from Ganita Manjari book:

Chapters:

World of Numbers

Introduction to Linear Polynomial

Exploring Algebraic Identities

Science

1. Prepare one working model (In group of 5)(As allotted)
2. Prepare one Art integrated project (paired state Uttar Pradesh – Arunachal Pradesh & Meghalaya)
3. Prepare chapter

Exploration: entering the world of secondary science


Describing motion around

Cell: the building block of life

For periodic Test.

Solve given numerical in the class work notebook.

1. A particle is moving up an inclined plane. Its velocity changes from 25m/s to 10m/s in 5 seconds. What is its acceleration? A particle is moving up an inclined plane. Its velocity changes from 25m/s to 10m/s in 5 seconds. What is its acceleration?
2. The velocity changes from 35m/s to 60m/s in 3 seconds. What is its acceleration?
3. A body covered a distance of 4 metre along a semicircular path. Calculate the magnitude of displacement of the body, and the ratio of distance to displacement?
4. A particle moving with an initial velocity of 8m/s is subjected to a uniform acceleration of 2.5m/s^2 . Find the displacement in the next 4 sec.
5. A train is travelling at a speed of 40 km/h. Brakes are applied so as to produce a uniform acceleration of -0.5 m/s^2 . Find how far the train will go before it is brought to rest.
6. A Truck covers 90km at a uniform speed of 30km/hr. What should be its speed for the next 120km if the average speed for the entire journey is 60km/h?
7. A stone is thrown in a vertically upward direction with a velocity of 15 m/s. If the acceleration of the stone during its motion is 8m/s^2 in the downward direction, what will be the height attained by the stone and how much time will it take to reach there?
8. A person goes to market, makes purchases and comes back at a constant slower speed. Draw displacement-time and velocity time graphs of the person?

9. Rahul runs for 8 min. at a uniform speed 5 km/h. At what speed should he run for the next 10 min. so that the average speed comes 15km/hr?
10. A particle was at rest from 1 a.m. It moved at a uniform speed 40km/hr from 1.30 a.m. to 2:00 a.m. Find the average speed between
- (a) 1.00 a.m. and 2.00 a.m.
 - (b) 1.15 a.m. and 2.00 a.m.
 - (c) 1.30 a.m. and 2.00 a.m
11. An object moves along a circular path of diameter 16cm with constant speed. If it takes 4 min. to move from a point on the path to the diametrically opposite point. Find
- (a) The distance covered by the object
 - (b) The speed
 - (c) The displacement
 - (d) Average velocity.
12. A particle with a velocity of 5m/s at $t=0$ moves along a straight line with a constant acceleration of 0.2m/s^2 . Find the displacement of the particle in 15s?
13. A particle is pushed along a horizontal surface in such a way that it starts with a velocity of 15m/s. Its velocity decreases at a uniform rate of 0.5m/s^2 .
- (a) Find the time it will take to come to rest.
 - (b) Find the distance covered by it before coming to rest?
14. A train accelerated from 30km/hr to 80km/hr in 5 minutes. How much distance does it cover in this period? Assume that the tracks are straight?
15. A cyclist moving on a circular track of radius 100m completes one revolution in 8 minutes. What is his
- (a) Average speed
 - (b) Average velocity in one full revolution?
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Social Science

1. Make the proper notes of chapter 1 and 2. And revise it properly.
2. Make a chart paper of any one (i) Atmosphere of earth

- ii) election and Democracy
- iii) Modern and old farming methods.

3. Make the model or working model of any one of it.(individual or in group)

- i) Earthquake Alarm
- ii) Landforms
- iii) Harppan Civilisation
- iv) Universal Adult Franchise
- v) Global warming
- vi) Historical Monuments
- vii) Interior of the earth
- viii) Rainwater harvesting
- Xi)Work of river
- X) Parliament house



Sanskrit

लिखित कार्य योजना -

1 - सरस्वती प्रार्थना / वंदना चित्र सहित चार्ट पेपर पर बना करके नीचे सरस्वती वंदना या श्लोक लिखे भावार्थ सहित । (थर्माकोल सीट पर चिपकाए)

2- सत्यं शिवं सुन्दरम् संस्कृतम् पाठ पर आधारित संपूर्ण पाठ का भावार्थ A4 साइज पेपर पर सुंदर सा लिखिए ।

3- पाठ्य पुस्तक (शारदा) के किसी एक पाठ पर सुंदर सी

पीपीटी/ प्रेजेंटेशन तैयार करें। (10 स्लाइड होनी चाहिए) ।

मौखिक कार्य योजना – पुस्तक (शारदा) से पाठ- 1 और पाठ- 2 के प्रश्न उत्तर को कंठस्थ कीजिए ।



- सुखस्य मूलं धर्मः धर्मस्य मूलम् अर्थः पाठ को पढ़ करके आइये ।

Pravish

Social Studies

1. Make proper notes of chapter 1 and 2. And revise it properly.
2. Make a chart paper of any one
 - i) Atmosphere of earth
 - ii) Election and Democracy
 - iii) Modern and old farming methods.
3. Make the model or working model of any one of it. (individual or in group)
 - i) Earthquake Alarm
 - ii) Landforms
 - iii) Harppan Civilisation
 - iv) Universal Adult Franchise
 - v) Global warming
 - vi) Historical Monuments
 - vii) Interior of the earth
 - viii) Rainwater harvesting
 - xi) Work of river
 - x) Parliament house

Pravish

Pravish

Information technology

- Q1. Draw communication cycle and identify the elements of the communication cycle.

Q2. Write four sentences to show the positive and negative feedback in a communication.

Q3. Make a list of the activity that you plan to do in a day. How will you manage your time with the activities you plan?

Q4. Make a PPT on 7C's of communication.

Q5. Write any five barriers in effective communication.

Dinky

- 9A MS. SUSHMA RATHORE Rathore
- 9B MS. MANJULATA Manjulata
- 9C MS. TAMSEEN BANO Tamseen