

Class- IX (Holiday Homework)
2nd Week

Day – 1

Subject- English

1. Make a sentence using each of the following words:
consider, start, understand, repeat, publish
2. Make words by adding the suitable prefixes: (**un, im, dis, in, mis, extra**)

COLUMN 1	COLUMN 2
POPULAR	
BELIEF	
IMPORTANT	
RESPECT	
CORRECT	
CONTINUE	
UNDERSTAND	
ORDINARY	
INTERESTING	
POSSIBLE	

Subject- Hindi

दो बेलों की कथा पाठ में आए सभी मुहावरों को छांटकर लिखिए तथा वाक्य में प्रयोग कीजिए

Subject – Odia

୧. ଭକ୍ତ ଚରଣ ଦାସଙ୍କ ପରିଚୟ ପ୍ରଦାନ କର ।
୨. 'କାହା ଯୁଗ ଅନାଇ ବଞ୍ଚିବି' କବିତାକୁ ଆଧାର କରି ପାଠର ଶବ୍ଦାର୍ଥ ଲେଖ ।

Subject- Maths

1. Write the square from 1 – 15.
2. Define real numbers and rational and irrational numbers with examples.
3. Represent $\sqrt{5}$ on a number line and explain the steps.
4. simplify: a) $(\sqrt{5} + 12)(\sqrt{5} - 12)$
b) $(\sqrt{7} - \sqrt{3})^2$
5. Form a problem involving operation on real numbers and solve.

Subject- Science

Chem

Ch1- Exploration: Entering the world of secondary science

Questions:

- 1- What is Science?
- 2- Name three main branches of Science?
- 3- What is observation in science?
- 4- Why are experiments important?
- 5- What is meant by scientific method?
- 6- Describe the importance of observation and experimentation.
- 7- What do the symbols of Magnifying glass and a Compass represent in Science?
- 8- Draw the diagram of a Compass and write uses in different fields

Day – 2

Subject- English

1. Write the present (V1), past (V2) and past participle (V3) form of the following verbs:
need, see, love, forget, rob, wait, return, think, ask, feel, know, continue, overcome, publish, give, touch, return, open, know
2. Write a descriptive paragraph in 120 words on “ MY FAVOURITE PLACE”.

Subject- Hindi

नीचे दिए गए संवाद पढ़िए और प्रश्नों के उत्तर दीजिए-

"मैं तो समझता हूँ, चुराए लिए आते हो। चुपके से चले जाओ। मेरे बैल हैं। में बेचूँगा, तो बिकेंगे। किसी का मेरे बैल नीलाम करने का क्या अख्तियार है?"

"जाकर थाने में रपट कर दूँगा।"

"मेरे बैल हैं। इसका सबूत यह है कि मेरे द्वार पर खड़े हैं।"

- 1 बैलों का काँजीहाउस में बंद होना न्याय और अन्याय दोनों को दर्शाता है। कैसे?
- 2 यदि आपको अवसर मिले तो आप बैलों की ओर से कौन-कौन से कानूनी अधिकार माँगेंगे?

Subject – Odia

୧. ନିମ୍ନଲିଖିତ ଶବ୍ଦକୁ ବ୍ୟବହାର କରି ସାର୍ଥକ ବାକ୍ୟ ଗଠନ କର।
ଶ୍ୟାମଳ, ସ୍ମରଣ, ବାରୁଣ, ସାହା, ଲକ୍ଷ୍ମର
୨. ରାଜା ବିନା ରାଜ୍ୟର ଅବସ୍ଥା କ'ଣ ହୁଏ ?

୩. ଯଶୋଦା ଶ୍ରୀକୃଷ୍ଣଙ୍କ ଶରୀରରେ କ'ଣ ଲେପନ କରୁଥିଲେ ?
୪. ଯଶୋଦା କୃଷ୍ଣଙ୍କ ନସ୍ତକକୁ କିପରି ସଜ୍ଜିତ କରୁଥିଲେ ?
୫. ଯଶୋଦା କୃଷ୍ଣଙ୍କ କ'ଣ କ'ଣ ଖାଇବାକୁ ଦିଅନ୍ତି ?
୬. କୃଷ୍ଣ ଚମକି ପଡ଼ି କ'ଣ କରୁଥିଲେ ?

Subject- Maths

1. Write the square from 16 – 30.
2. Represent $\sqrt{2}$ and $\sqrt{3}$ on same number line.
3. Find the decimal expansion of $\frac{1}{7}$ and classify it.
4. Rationalise the denominator:
 - a) $\frac{\sqrt{3}}{\sqrt{5}-\sqrt{2}}$
 - b) $\frac{\sqrt{5}+\sqrt{7}}{\sqrt{5}-\sqrt{7}}$
5. Identify $\sqrt{49} + \sqrt{2}$ is rational or irrational and justify.

Subject- Science

1. Explain, What happens if a cell is kept in salt or sugar solutions of different concentrations?
2. Explain the features of a Cell membrane or Plasma membrane.
3. Why, plasma membrane called the Fluid -mosaic model ?

Day – 3

Subject- English

1. Write an application to the principal asking to leave for the remaining periods as you have a stomach pain in the class.
2. Translate the following sentences into English
 - i) ସେ ବର୍ତ୍ତମାନ ବହି ପଢୁଛି ।
 - ii) ଆମେ ଏବେ ପାଠ ପଢୁଛୁ ।
 - iii) ମୁଁ ଭାତ ଖାଉଛି ।
 - iv) ଛାତ୍ରଛାତ୍ରୀମାନେ ବର୍ତ୍ତମାନ ଇଂରାଜୀ ଶିଖୁଛନ୍ତି ।
 - v) ପିଲାମାନେ ଗୀତ ଗାଉଛନ୍ତି ।

Subject- Hindi

୧. अपने मोहल्ले की गंदगी दूर करने के लिए स्वास्थ्य अधिकारी को पत्र लिखिए।
୨. भारत के क्रिकेट टीम के अच्छे प्रदर्शन को लेकर दो मित्रों की बात का संवाद लेखन कीजिए।

Subject – Odia

ଯଶୋଦାଙ୍କ ମାତୃ ହୃଦୟର ମଧୁର ଅଭିବ୍ୟକ୍ତି କିପରି ପ୍ରକାଶିତ ହୋଇଛି ପଠିତ 'କାହା ଯୁଗ ଅନାଇ ବଞ୍ଚିବି' କବିତା ଅନୁସରଣରେ ଲେଖ ।

Subject- Maths

1. Write the square from 31 – 45.
2. Write all laws of exponents with one example.
3. Represent $\sqrt{4.7}$ on number line and write the steps.
4. Express $0.3\overline{72}$ in the form $\frac{p}{q}$ where, both p & q are integers and $q \neq 0$.

Subject- Science

1. Define the average velocity. What is the expression for average velocity in case of uniform velocity?
2. Define the average acceleration.
3. What is a reference point?
4. A train covers 120 km in 3hrs ,find its speed in
a) km/h b) m/s
5. A car increases its velocity from 10m/s to 30m/s in 5 sec. find its acceleration.
6. A body moves with a uniform acceleration.what does it mean?

Day – 4

Subject- English

1. Make a sentence using each of the following verbs:
touch, teach, buy, continue, start
2. Fill in the blanks with simple past and past perfect tense form of the verbs given in brackets.
 - i) When the delegates ____ (arrive) at the conference, the keynote speaker ____ (already begin) the session.
 - ii) After the students _____ (learn) how to identify fake news online, they _____ (start) verifying information before sharing it.
 - iii) Before Kiran _____ (start) using digital payment platforms, she _____ (ensure) her understanding of online fraud prevention.
 - iv) By the time Varun _____ (recognise) the importance of budgeting, he _____ (exhaust) most of his savings.
 - v) When Raghu _____ (log in) to the cyber security webinar, the instructor _____ (already discuss) the importance of strong passwords.

Subject- Hindi

मान लीजिए कि आपको बाल-सभा ने हीरा-मोती के लौटने के बाद भाषण देने के लिए बुलाया है। भाषण का विषय है 'पशुओं के अधिकार' अपना भाषण लिखिए-

Subject – Odia

ବନ୍ଧନୀ ମଧ୍ୟରୁ ଉପଯୁକ୍ତ ଶବ୍ଦ ବାଛି ଉତ୍ତର ଲେଖ ।

୧.କାହାମୁଖ ଅନାଇ ବଞ୍ଚିବି କବିତାଟି କେଉଁ ପୁସ୍ତକରୁ ଆନୀତ ?(ମଥୁରା ମଙ୍ଗଳ, ମନବୋଧ ଚଉତିଶା, ଗୋପ ମଙ୍ଗଳ, କଳାକଳେବର ଚଉତିଶା)

୨.କାହାମୁଖ ଅନାଇ ବଞ୍ଚିବି କବିତାରେ କେଉଁ ଭାବ ପ୍ରକାଶିତ ହୋଇଛି ?(ପ୍ରେମଭାବ, ବାସ୍ତବ୍ୟ, ବାସ୍ତବ୍ୟ ମମତା, ଶ୍ରଦ୍ଧା)

୩.ଜୀବନ- ଏହା କେଉଁ ଅର୍ଥରେ କବିତାରେ ବ୍ୟବହୃତ ହୋଇଛି ?(ପ୍ରାଣ, ଜଳ, ଜୀବ, ଯାହାର ଜୀବନ ଅଛି)

୪.-----ବିସ୍ତୁନେ ଯେହ୍ନେ ଝସ ।

ଉପଯୁକ୍ତ ପଦ ବାଛି ଶୂନ୍ୟସ୍ଥାନ ପୂରଣ କର ।

(ଉଦକ, ଜୀବନ, ପବନ, ଖାଦ୍ୟ)

୫. ଶ୍ରୀକୃଷ୍ଣ ତାଙ୍କ ପିତାଙ୍କୁ କ’ଣ ମାଗୁଥିଲେ ?

(ବ୍ୟାଟ୍, ବଲ୍, ଖେଳଣା, ଚନ୍ଦ୍ର)

୬.ଜୀବନ ହାରିବି ଗଣ୍ଡଜଳେ ଗଣ୍ଡଜଳ କେଉଁ ଅର୍ଥରେ ବ୍ୟବହୃତ ?

(ସମୁଦ୍ରର ଗଭୀର ଗଣ୍ଡର ଜଳ, ନଦୀର ଗଭୀର ଗଣ୍ଡର ଜଳ, ଆଖୁର ଲୁହ, ଆଖୁର ଗାଲ ଉପର ଦେଇ ଅନବରତ ବହୁଥିବା ଲୁହଧାର)

୭.ଶ୍ରୀକୃଷ୍ଣ କାହାକୁ ଦେଖି ଭୟ କରୁଥିଲେ ?

(ବାଘ, ସିଂହ, ଭାଲୁ, ଛାଇ)

୮.ଚନ୍ଦ୍ରମୁଖ କହିଲେ କ’ଣ ବୁଝାଯାଏ ?

(ଚନ୍ଦ୍ରର ମୁଖ, ଚନ୍ଦ୍ରରୂପକ ମୁଖ, ଚନ୍ଦ୍ରପରିମୁଖ, ଅତିସୁନ୍ଦର ଶାନ୍ତସ୍ମିତ୍ତମୁଖ)

୯.ପକ୍ଷରତ୍ନ-ଏଠାରେ ରତ୍ନ କେଉଁ ଅର୍ଥରେ ବ୍ୟବହାର କରାଯାଇଛି ?

(ଅପ୍ସରା, ଏକ ପ୍ରସିଦ୍ଧ ସ୍ଥାନ, କଦଳୀ, କମଳା)

୧୦. ଭକ୍ତଚରଣଙ୍କ ପିଲାଦିନର ନାମ କ’ଣ ଥିଲା ?

(ବୈରାଗୀ ଚରଣ, ଅନାମ ଚରଣ, ସୁଦାମା ଚରଣ, ଶ୍ରୀଚରଣ)

Subject- Maths

1. Write the square from 46 – 60.

2. compare rational and irrational number with examples.

3. Simplify: $\frac{3^{\frac{1}{4}} \times 3^{\frac{1}{2}}}{3^{\frac{1}{3}} \times 3^{\frac{1}{5}}}$

4. Represent $\sqrt{9.5}$ in number line with steps.

5. Construct a square root spiral and visually represent irrational numbers like $\sqrt{2}, \sqrt{3}, \sqrt{4}, \sqrt{5}$ etc.

Join all point and say which figure you obtained

Subject- Social Science

Read the passage given below and write the answer of the following questions

The earth's interior is divided into three major concentric layers: the Crust, the Mantle, and the Core. The topmost layer is the Crust, which is the thinnest layer and is solid. It is divided into the continental crust (called SIAL—Silica + Aluminium) and the oceanic crust (called SIMA—Silica + Magnesium).

Beneath the crust is the Mantle, which extends to a depth of about 2,900 KM and is primarily composed of solid iron and magnesium rocks, forming 84 % of the Earth's total volume. The upper portion of the mantle is

called the asthenosphere, which is in a partially molten (ductile) state and serves as the main source of magma.

The innermost layer is the Core, also known as NIFE (Nickel + Iron) due to its composition. It is divided into a liquid outer core and a solid inner core due to intense heat and pressure. The boundary between the crust and mantle is the Mohorovicic Discontinuity, while the boundary between the mantle and core is the Gutenberg Discontinuity.

1. What are the three major layers of the Earth?
2. Why is the oceanic crust referred to as SIMA?
3. What is the asthenosphere, and why is it important?
4. How are the two parts of the core differentiated?
5. Identify the discontinuity that separates the mantle from the core.
6. What are the two types of crust?
7. Explain the term 'NIFE'.
8. Why is the inner core solid despite being extremely hot?

Day – 5

Subject- English

1. Fill in the blanks with the correct pronouns.

- i) Sita and I went to the market. ___ bought some fruits and vegetables.
- ii) This is my friend Thomas. ___ is a good singer.
- iii) My brother is very smart. Everyone admires ___.
- iv) These books are not mine. Are they ___?
- v) The dog wagged ___ tail when it saw its owner.

2. Rearrange the jumbled words and make meaningful sentences.

- i) I / to / the / forgot / letter / post.
- ii) at / the / aim / the / deer / took / hunter.
- iii) the / behind / were / the / bush / thieves / hiding
- iv) spoken here/ there are / languages/ many

Subject- Hindi

यदि बैल वापस न लौटते तो कहानी का अंत कैसे होता? कहानी का नया अंत लिखिए-

Subject – Odia

ବଂଶାବଳୀ-ଜେଜେବାପା ଅବା ପିତାଙ୍କ ସହାୟତାରେ ପରିବାରର ବଂଶାବଳୀ ପ୍ରସ୍ତୁତ କର।

Subject- Maths

1. Write the square from 61 – 70.
2. What is the Cartesian plane?
3. Define: a) Origin
b) X – axis and Y – axis
c) Quadrants
4. Illustrate the four quadrants with examples.
5. Plot the points on graph paper. $A (2, 3)$; $B (-3, 4)$; $C (-2, -5)$; $D (4, -3)$

Subject- Social Science

1. What do you mean by economic activity?
2. What is land in economics?
3. What is Labour?
4. What is physical capital?
5. What is working capital?
6. Human capital is superior than other capital? Justify the statement.
7. What is production?
8. What is utility?

Day – 6

Subject- English

1. Writing Skill

Write an application to the Principal requesting her to organise a friendly football match .

2. Translate the following sentences into English.

i) ସେ ପ୍ରବନ୍ଧ ପ୍ରତିଯୋଗିତା ପାଇଁ ପ୍ରସ୍ତୁତି ହେଉଛି।

ii) ଶିକ୍ଷକମାନେ ପରୀକ୍ଷା ପତ୍ର ଯାଞ୍ଚ କରୁଛନ୍ତି।

iii) ମୁଁ ଏକ ନୂଆ କାହାଣୀ ପଢୁଛି।

iv) ସେମାନେ ଉଦ୍ୟାନରେ ଖେଳୁଛନ୍ତି।

v) ସେ ବ୍ୟାୟାମ କରୁଛି।

3. Prepare a chart on “THE PAST TENSE” using the verb “write”.

Subject – Hindi

“दो बैलों की कथा” कहानी में से दस ऐसे शब्द चुनकर लिखिए जो आपके लिए बिल्कुल नए हैं। अब उन शब्दों के अर्थ अपने अनुमान से लिखिए। इसके बाद उनके अर्थ शब्दकोश में से देखकर लिखिए और उसे वाक्य में प्रयोग कीजिए

Subject- Odia

‘ଜଳ ସଂରକ୍ଷଣ’ ବିଷୟକୁ କେନ୍ଦ୍ରକରି ଗୋଟିଏ ଅନୁଲେଖ ପ୍ରସ୍ତୁତ କର।

Subject- Maths

1. Write the square from 71 – 80.

2. What are the coordinates of origin?

3. Identify the quadrant of each point.

a) $(-2, 5)$

b) $(4, -8)$

c) $(-9, -3)$

d) $(7, 6)$

e)

$(-3, -3)$ f) $(-7, 8)$

4. Design a simple figure (like triangle or rectangle) by plotting points on the Cartesian plane.

5. Which is far from origin: $(3, 4)$ or $(-5, 2)$? Explain your reasoning.

Subject- Social Science

Answer these

1. What is democracy?

2. Define universal adult franchise.

3. Name any three features of democracy.

Subject – I.T

1. Cyber Safety Activity

Make a poster on: “Safe and Responsible Use of the Internet”

Include:

5 safety rules

2 dangers of internet misuse

One drawing/symbol (lock, shield, etc.)

Do it on a A4 size paper

Summer Special Activity

Make a friendship bracelet with colourful threads, beads and other decorative items.