



**D Y PATIL**  
**INTERNATIONAL SCHOOL**  
**BOKARO**



# Summer Assignments

2024-25

Grade - IX



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## **“The one who is constantly in a state of learning is called a student”**

Dear students,

You must be very happy and excited to enjoy your vacations. You must have planned how to spend your holidays. You know time is very precious and this year we suggest you some new ways of spending your vacation.

When you visit any of your relative's house, you should think and find out whether there are any means of learning in their house. For example, if your uncle has a computer, then you can learn things like typing or visiting websites that teach good sanskars (values). Students, if you really want to enjoy the vacation, then remember that real happiness lies in learning new things.

Actually, vacation is an open school which gives you the opportunity to shape your personality and learn various innovative arts and skills. During the vacations, you should have fun; but at the same time you must also try to learn some new things. This is an opportunity given to you by God to find out the skill in which you are lacking and develop it.

**The following are some suggestive tips which you can imbibe in you:**

- **Care for the Environment** –Activities like planting trees, stopping wastage of water in their locality and cleaning around especially along with friends are practical, learning and fun to do.
- **Develop new skills** –Engage in activities like photography, arts and crafts or learning to play musical instruments etc. Learn to cook new recipes.
- **Making your health a Priority** – Get up early every morning and participate in activities like yoga, meditation, Zumba and other physical exercises along with friends and siblings. Playing outdoor games like kho-kho, kabaddi, etc. is exercise which keeps our body fit and healthy.
- **Help your parents in their work**–Throughout the year, your parents help you in your studies and homework. In addition to managing her own household responsibilities, your mother prepares lunch for you and helps you in your studies. So, as a token of gratitude, you too should help her with the household work during your vacation.
- **Enrol in Online Courses:** Take advantage of several online learning platforms and enrol in courses that align with your interests or future career goals.
- **Read Books:** Reading not only enhances your language and vocabulary but also broadens your perspective.
- **Time for family bonding:** Summer vacations provide ample time for families to spend quality time together, strengthening family bonds and creating lasting memories.

### **How Can Parents Help Students Make the Best of Their Summer Vacation**

As a parent, there are several things you can do to make summer vacation fun and engaging for your child:

1. **Plan ahead:** Before summer vacation starts, sit down with your child and create a list of activities they would like to do. This can help ensure that they have a fun and fulfilling summer.
2. **Create a routine:** While it is important to allow your child to relax and have fun during summer vacation, creating a routine can help maintain structure and ensure that they are engaging in meaningful activities.
3. **Encourage creativity:** Encourage your child to engage in creative activities, such as drawing, painting, or writing. This can help develop their creativity and enhance their self-expression.
4. **Spend quality time together:** Summer vacation is a great time to strengthen family bonds by spending quality time together. Plan family outings, game nights, or movie nights to create lasting memories.
  - ◆ **Monitory our child's screen time.**

## Subject- English

1. Read the story - GULLIVER'S Travels.
2. Everyday write down 5 new words from Gullivers Travels story and find out the meanings from the dictionary and write in Grammar notebook. (Minimum 150 words)
3. Do pg. no. 16 of Main Course book in Grammar notebook.
4. Do question no A-14 on pg.no 14 of main course book in Grammar notebook.
5. Make a diary entry for one week in your Grammar notebook.
6. Paste a picture of an Exemplary leader of your choice in your scrap book and write a short paragraph.
7. Make a Daily Newspaper in English of A4 size of 6 pages. Give your newspaper an interesting name. Take help of any English newspaper of your choice.

## Hindi

सम्पूर्ण कक्षा कार्य को उत्तर पुस्तिका में पूर्ण कीजिए एवं याद कीजिए।

1. पाठ – दो बैलों की कथा, साखियाँ और सबद, लहासा की ओर, उपभोक्तावाद की संस्कृति, वाख, सवैये, सवैये, पाठ के लेखक परिचय के साथ प्रश्न उत्तर पूर्ण कीजिए।
2. व्याकरण –
  - क. उपसर्ग की परिभाषा एवं व्याख्या लिखिए।
  - ख. प्रत्यय की परिभाषा एवं व्याख्या लिखिए।
  - ग. अर्थ के आधार पर वाक्य के भेद लिखिए, एवं उदाहरण द्वारा समझाइए।
3. चार्ट पेपर पर –
  - क. उपसर्ग और प्रत्यय का सचित्र वर्णन कीजिए।
  - ख. अर्थ के आधार पर वाक्य के भेद उदाहरण द्वारा समझाइए।
4. चार्ट पेपर पर – अर्थ के आधार पर वाक्य के भेद लिखिए – एवं उदाहरण द्वारा समझाइए।

## Mathematics

1. Construct a square –root spiral and show  $\sqrt{2} \sqrt{3} \sqrt{5} \sqrt{6} \sqrt{7}$  on it.  
Write steps of construction also. (Use A4 size white sheet to construct) (In H.W copy)
2. Do an activity.  
Take a rectangular sheet of paper. Fold it along the breadth. Make a cylinder. Compare the area of rectangular sheet and curved surface Area of cylinder Relate the length of rectangle with the circumference of base of cylinder. (In H.W. Copy)
3. Solve all questions of chapter No-1 (Number System) from NCERT exemplar book. (In H.W Copy)

## Science

### Physics

- The data regarding the motion of ten objects A & B are given as under Examine the data carefully :
  - Draw (D-t) graph of object A and B separately on the graph paper. (graph must be complete in all respects, topic, scale etc.)
  - Predict and write your observation about the motion(uniform or non-uniform)  
(In Physics copy)

Time	Distance travelled by A	Distance travelled by B
9:30 am	10	12
9:45 am	20	19
10:00 am	30	23
10:15 am	40	35
10:30 am	50	37
10:45 am	60	41
11:00 am	70	44

- Prepare on chart paper the biography of the following in  $\frac{1}{4}$  of full paper) also paste coloured picture of the scientist
  - Galileo Galilei ( Roll 1 to 4)
  - Sir Issac Newton (Roll 5 to 8)
  - Archimedes (Roll 9-12)
  - James Prescott Joule (Roll 13 to 16)
  - Heinrich Rudolph Hertz (Roll 17-21)
- Draw picture and explain how SONAR works.  
(In physics copy). (Picture on left white page, writing in rule page) (In physics copy)

### Chemistry

- Draw a picture and colour it in different shades of same colour to show "how small the particle of matter is." Draw in a white page. Write your finding on the rule page.  
(Take help ch-1, pg.-2) (In chemistry copy)

2. Prepare a chart showing magnified schematic picture of three states of matter .  
(In A4 size page).
3. Prepare on chart paper separation of component of air and label it (Take help pg.237 your course book. (On  $\frac{1}{4}$  sheet of chart paper)
4. Prepare on a chart paper showing how water purification system in water works .  
(Take help of pg.no-24) of your course book.(On  $\frac{1}{4}$  size of full imperial chart paper)
5. Prepare a model showing schematic atomic structure of the first eighteen elements.  
(You can use thread (for making circle), small ball of same colour (showing electron) and ball for showing nucleus (different colours than colour of electron).

### **Biology**

- I. Make a comparison and write down ways in which plant cells are different from the animal cells?
- II. What is cell division? Describe Mitosis and Meiosis with a diagram.
- III. On a large chart paper draw the following :-
  - a. Plant cell
  - b. Animal cell
  - c. Prokaryotic cell
- IV. Make a model of : Plant cell or Animal cell
- V. Take some potatoes and do the experiment of osmosis. And give the answer of :-
  - a. Why does water gather in the hollow.
  - b. Why does not water gather in the hollowed out?
  - c. How many types of osmosis? Name them?

### **Social Science**

1. On a map of India mark the 28 states and 8 Union Territories with the help of different colours.
2. On a map of India mark the countries which form the Indian Sub-continent (Pakistan, Nepal, Bhutan, India, Bangladesh, Maldives, Sri Lanka)
3. On a map of India mark the Tropic of Cancer, Northernmost Latitude in degrees, Southernmost Latitude in degrees, Easternmost, Longitude in degrees and Westernmost Longitude in degrees.
4. Find out about the types of unemployment and make a project file containing about 8 to 10 pages explaining the different types of unemployments found in our country. Your file should contain a title page, contents, Introduction, Review, References (Bibliography) and epilogue.
5. On an A4 size file paper, design the Preamble of our constitution.
6. Design a poster to spread awareness about the "Importance of voting" on an A4 size file paper.

7. With the help of recycled, old plastics water-bottle or small clay pot (matki) and ropes, make a bird water feeder.

### Sanskrit

1. नीचे लिखें गद्यांश को पढ़कर प्रश्नों के उत्तर लिखें।

ग्रामीणाः जनाः प्रायोण कृषीवलाः भवन्ति । ते च प्रातरारभ्य सायं यावत् क्षेत्रेषु कुर्वन्ति । क्षेत्राणि समया वारिणा पूर्णाः जलाशयाः भवन्ति । कृषकाः क्षेत्राणि हलेन कर्षन्ति, जलाशयजलेन तानि सिंचन्ति, तत्र बीजानि वपन्ति च । ते च गृहाणि परितः शाकादीन्यपि रोपयन्ति । परिश्रम शीलाः ग्रामीणाः घान्यादिकमुत्पादयन्ति ।

I. एकपदेन उत्तर । (एक पद में उत्तर दीजिए)

- के घान्यादिकम् उत्पादयन्ति?
- कृषकाः केन क्षेत्राणि कर्षन्ति?
- कानि समया जलाशयाः भवन्ति?
- ग्रामीणाः गृहाणि परितः किं रोपयन्ति?

II. पूर्णवाक्य में उत्तर दीजिए।

कृषकाः प्रातरारभ्य किम् कुर्वन्ति?

III. निर्देशानुसार उत्तर दीजिए।

- 'वारिपूर्णाः जलाशयाः' अत्र किं विशेषणं पदम् ?
- 'गृहाणि' अत्र का विभक्तिः प्रयुक्ता ?
- 'सायम्' अस्य विलोमपदम् लिखत ।
- गद्यांशे तानि' कस्मै प्रयुक्तम् ।

2. विद्यालयात् दिनद्वयावकाशार्थं प्रार्थना दातुं भवान् कृष्णः इच्छति । एकदर्थं मंजूषायाः समुचितैः पदैः रिक्तस्थानानि पूरयत् इदं पत्रं पुनर्लिखत ।

मंजूषा – आगामी, फरीदाबादे, अनुगृहणातु, कृष्णः, नवमी, क- ख-ग विद्यालयः,  
प्रार्थना, भगिन्या, दिनद्वयस्य भवदीयः।

सेवायाम् ,

श्रीमान् मुख्याध्यापक महोदय,

i. -----

कर्णपुरम्

मान्यवराः

सविनय निवेद्यते यत् ii. ----- मासस्य पंचमं दिनांके मम iii. ----- विवाहः iv. ----- सम्पत्सयते ।

विवाहतिथेः एकदिन पूर्वमेव मया तत्र प्राप्तव्यम् । अतः v. ----- अवकाशं प्रदाय vi. ----- भवान् इति मदीया vii. ----- ।

दिनांक : 11.11.200X

viii. ----- शिष्याः,

ix. -----

x. -----

3. मंजूषा से उचित शब्द लेकर नीचे लिखी बातचीत को पूरा कीजिए।

मंजूषा – रामायणस्य, रामायणम्, नायकः, नमः, रामः, अनुकरणीयम्,  
वाल्मीकिः, दशरथस्य, चरित्रम्, पुत्रः

- पीयूषः – प्रभे तव प्रियं पुस्तकम् किमस्ति?  
 प्रभा – मम प्रियं पुस्तकं (i)----- अस्ति ।  
 पीयूषः – (ii)----- कः रचयिता?  
 प्रभा – (iii)----- रामायणस्य रचयिता ।  
 पीयूषः – रामायणस्य कः (iv)-----?  
 प्रभा – (v)-----रामायणस्य नायकः ।  
 पीयूष – रामः कस्य (vi)-----आसीत्?  
 प्रभा – रामः (vii)-----ज्येष्ठः पुत्रः आसीत् ?  
 पीयूष – रामस्य (viii)----- कीदृशम् अस्ति?  
 प्रभाः – रामस्य चरित्रम् उदात्तम् (ix)-----चास्ति ।  
 पीयूषः – (x)-----एतादृशाय महापुरुषाय ।

4. मंजूषा से पदों को चुनकर कहानी को पूरा कीजिए।

**मंजूषा** – अचिन्तयत् , वृद्धः, दुखिताः, कोटरे , वृक्षस्य, जलाशयम्, सर्पः, आदाय, समीपे

एकस्य वृक्षस्य शाखासु अनेके काकाः वसन्ति स्म । तस्य वृक्षस्य -----एकः सर्पः अपि अवसत् । काकानाम् अनुपस्थितौ ----- काकनां शिशून् खादति स्म । काकाः ----- आसन् । तेषु एकः -----काकः उपायम्----- । वृक्षस्य ----- जलाशयः आसीत् । तत्र एका राजकुमारी स्नातुं ----- आगच्छति स्म । शिलायां स्थितं तस्याः आभरणम् -----एकः काकः वृक्षस्य उवरि अस्थापयत् । राजसेवकाः काकम् अनुसृत्य -----समीपम् अगच्छन् । तत्र ते तं च अमारयन् । अतः एवोक्तम् उपायेन सर्वं सिद्धयति ।

5. नीचे लिखे वाक्यों में रिक्त स्थानों को भरिए।

- i. 'गणितम्' इति पदे ----- वर्णः तालव्यः अस्ति ।  
 ii. य्, र्, न्, व् वर्णेषु कः वर्णः नासिक्यः अस्ति ? -----  
 iii. स्, ष्, श्, वर्णेषु ----- वर्णः मूर्धन्यः अस्ति ।  
 iv. अ, ए, औ वर्णेषु ----- वर्णस्य उच्चरणस्थानं कण्ठोष्ठम् अस्ति ।  
 v. 'कमलम्' इति पदे -----वर्णः कण्ठ्य अस्ति ।  
 vi. ग्, घ, ज्, वर्ण 'घ' वर्णस्य उच्चरणस्थानं -----अस्ति ।

6. नीचे लिखें शब्दों का संधि विच्छेद कीजिए।

- i. दिनांकः                      vi. रजनीशः                      xi. दिग्गजः  
 ii. धनादेशः                      vii. सप्तर्षिः  
 iii. सभाध्यक्षः                      viii. तथैव  
 iv. कपीश्वरः                      ix. षडानन  
 v. नदीव                      x. सेऽपि

7. नीचे लिखे शब्दों के शब्द रूप सभी विभक्तियों तथा तीनों वचनों में लिखें।

1. माता
2. पिता
3. अस्मद्
4. युष्मद्
5. एतत्

8. नीचे लिखें धातु के धातु रूपों को पाँचों लकारों में लिखें ।
- दा
  - नम्
  - स्मृ
  - क्रुध्
9. संस्कृत के प्रसिद्ध कथाग्रन्थ पंचतंत्र के कोई एक कथा को लिखकर फाइल बनाइए ।
10. संस्कृत भाषायाः महत्वम् पर अनुच्छेद लिखिए ।
11. चार्ट पेपर पर श्रीमद्भागवद् गीता के श्लोक को लिखें ।

## Computer

1. Imagine you have an older friend who is moving away to university .He wants to buy a new computer to take with him remembering of course that he must come home for every holiday.  
Which type of computer would you suggest? Explain fully your answer-why would you suggest that type.
2. Draw a diagram to show how these computers are connected in an ICT system:
  - ◆ Process
  - ◆ input
  - ◆ output
  - ◆ Backing store
3. What are the major strengths & weaknesses of computer?
4. Identify two tasks these computer might be used to do :
  - ∅ Super computers
  - ∅ Personal Digital Assistant (PDA)
  - ∅ Mainframe computer
  - ∅ Microcomputer (Personal computer)
5. Some storage devices have volatile memory. Explain what is meant by the term volatile.
6. What are the different data types its usage & size in MS-Access 2016