

ST. JOSEPH'S ACADEMY

Class- IX

Holidays Homework

ENGLISH

Do the following Questions in a beautiful **Handmade portfolio** :

Ques 1. Write the **Biography** of any one of the following: -

- Ustad Bismillah Khan

- Evelyn Glennie

(Also draw the related musical instruments mentioned in the text- The Sound of Music)

Ques 2. Make a **pictorial project** on the life of poet Robert Frost, highlighting his life events, awards, and literary works in about 5–6 pages.

Ques 3. **Newspaper Reviews:** Paste three editorial articles from newspapers into your portfolio and write a brief review for each.

Ques 4. **Novel Study:** Read “To Kill a Mockingbird by Harper Lee”. Write a 100–120 word summary about your favorite character, list five memorable dialogues, and identify 20 new words with their meanings and usage in sentences.

SUBJECT- MATHEMATICS

1. Do the following activities in Maths Practical File:

- Activity 1: To construct a square-root spiral.
- Activity 2: To verify the algebraic identity: $(a + b)^2 = a^2 + 2ab + b^2$
- Activity 3: To verify the algebraic identity: $(a - b)^2 = a^2 - 2ab + b^2$
- Activity 4: To verify the algebraic identity: $a^2 - b^2 = (a+b)(a-b)$.
- Activity 5: To verify the values of abscissae and ordinates of various points given in a cartesian plane.

2. Draw chart or make model on any topic related to class IX NCERT.

3. Practice questions from NCERT exemplar for the chapters done in class.

SOCIAL SCIENCE

Project work

Every student must undertake one project on **Disaster Management- MAN MADE AND HUMAN MADE.**
Project to be done in science practical file or lab manual.

Objectives:

The main objectives of giving project work on Disaster Management to the students are to:

- * To create awareness in them about different disasters, their consequences and management
- * To prepare them in advance to face such situations
- * To ensure their participation in disaster risk reduction plans
- * To enable them to create awareness and preparedness among the community.
- * The project work helps in enhancing the Life Skills of the students.

* Various forms of art must be integrated in the project work.

Format of Project

1. Cover page
2. Acknowledgements
3. Index
4. Introduction of natural disaster
5. Causes
6. Effects
7. Preventive measures
8. Disaster occurred in actual (any country)
9. Conclusion
10. Bibliography

INFORMATION TECHNOLOGY (402)

Note: - The holiday homework is divided into two segments.

One segment is HAND WRITTEN ASSIGNMENT and another segment is LIBRE OFFICE-WRITER PROJECT.

Instructions for Segment -1 (HAND WRITTEN ASSIGNMENT):-

- Attempt all the questions in ruled colourful sheets.
- Make sure that all the questions to be done are handwritten.
- Paste relevant pictures with each specified example.
- Submit whole project in form of spiral file.

Answer the following :-

1. Explain the elements of communication cycle.
2. **Write short notes on :-**
 - a) Verbal Communication
 - b) Perception
 - c) Prejudice
 - d) Visual Communication
 - e) Feedback
3. What are the different kinds of phrases ? Explain in detail with relevant examples.
4. Explain the role of IT in following sectors with relevant pictures :---
 - a) Health Care
 - b) Entertainment and Arts
 - c) Scientific Research and Engineering
 - d) Banking
5. Explain the 7Cs of effective communication.
6. What rules should be kept in mind while writing a good paragraph?
7. **Briefly explain following :-**
 - a) Interjections
 - b) Situational barriers
 - c) Global In house Centres
 - d) Learning management system
 - e) Articles

Instructions for Segment -2 (LIBRE OFFICE-WRITER PROJECT):-

1. Take the print outs of whole project and submit in form of spiral file.

2. Attempt all the questions by reading the instructions carefully.
3. Don't forget to add the introductory page mentioning :-> your rollno.,name,class,section,subject,topic name and submitted to whom :- the respective Teacher's name.

Do as directed :--

Create a poster for “**how important is it to have a healthy mental wellbeing for today'S generation**” in LIBRE OFFICE-WRITER with the following features :-

1. Write a paragraph of atleast 20 lines about the given topic in the poster.
2. Add the following :--
 - a) **Font** (face,size,colour,text case)
 - b) **Header and Footer**
 - c) **Alignment** of text (justified)
 - d) **Images/shapes and symbols** required to make the poster look attractive and presentable.
 - e) Add **bullets and numbering** wherever needed.
 - f) **Watermark** of LOGO OF (**Healthy mentality** --diagonally)
 - g) Add decorative **page border**
3. Create a list of atleast 5 important measures which should be kept in mind for effective mental well-being by inserting a **table** with following fields :-
 - a) Sr. No.
 - b) Name of the Measure
 - c) Category it belongs to..
 - d) Helps in ?
 - e) Add image of each measure as example.
4. Create a **Pie chart** based on the data entered above in table.
5. Show the working of following features (**by taking screenshots respectively in between**) while doing :--
 - a) Apply **clone formatting** at specific point and highlight its usage.
 - b) Use of **find and replace** feature on any particular word.
 - c) Appropriate display of use of **Spelling and Grammar** feature.
 - d) Use **thesaurus** at few places.

HINDI

सामान्य निर्देश

- सभी प्रश्न भित्ति पत्रिका (PROJECT FILE ,SIZE A4) में करें।
- परियोजना कार्य साफ़ और सुंदर अक्षरों में लिखें।
- विषय संबंधित चित्रों को भी लगाए या बनाएं।
- रंगों के प्रयोग द्वारा अपनी सृजनात्मकता से आकर्षित बनायें।
- सभी प्रश्नों के उत्तर निर्देशानुसार दीजिए

Q1 'अतिथि देवोः भवः'-यह कथन आधुनिक समय में कितना सार्थक है ? बताइये।

Q2 निम्न महिलाओं के चित्र लगाकर संक्षिप्त जानकारी प्राप्त करें -

1 पी टी उषा

2 आरती साहा

3 किरण बेदी

Q3. बुरा जो देखन मैं चला, बुरा न मिलिया कोय ।

जो मन देखा आपना, मुझ से बुरा न कोय ॥

-आशय स्पष्ट कीजिये।

Q4 .रहीम जी के चित्र के साथ उनके कोई दो नीतिपरक दोहे व्याख्या सहित लिखे।

Q 5 उच्च जाति का निम्न जाति से भेदभाव विषय पर - एक नारा लिखे।

प्रश्न 6) यात्रा हमेशा कुछ न कुछ अनुभव देती है। यह न केवल जीवन जीना सिखाती है बल्कि नए स्थानों की जानकारी भी हमें देती है। आपने अपनी जीवन में की गई यात्राओं से क्या अनुभव किया लिखिए।

प्रश्न 7) क्या आपने कभी अपने जीवन में कुछ पाने के लिए संघर्ष किया है ?किसी से सहायता लिए बिना अपने लक्ष्य को प्राप्त किया है ?तर्क सहित उत्तर दीजिये।

प्रश्न8) रैदास अपने दोहो के माध्यम से क्या सन्देश देते हैं ?

प्रश्न 9)"अपनी शक्ति के अनुसार योजना बनाने वाला ही सफल होता है "-स्मृति पाठ के आधार पर बताइये।

प्रश्न 10) घायलों की सहायता के लिए धैर्य किन आवश्यकता पड़ती है -गिल्लू पाठ के सन्दर्भ में स्पष्ट कीजिये की किसी घायल के प्रति आपके व्यवहार में क्या विशेषता होगी।

प्रश्न11)निम्नलिखित विषयों पर अनुच्छेद लिखिए -

क) बदलती दुनिया में पीछे छूटते जीवन मूल्य

संकेत बिंदु-

- संसार परिवर्तनशील
- बदलाव का प्रभाव
- खोते नैतिक मूल्य

ख) कंप्यूटर-आज की आवश्यकता

संकेत बिंदु-

- कंप्यूटर एक विचित्र उपकरण
- बढ़ता उपयोग
- इंटरनेट और कंप्यूटर
- प्रयोग की सावधानियाँ

ग) आत्मनिर्भरता

संकेत बिंदु-

- आत्मनिर्भरता क्या है
- आत्मनिर्भरता के लाभ
- आत्मनिर्भरता से जुड़ी सावधानियाँ

घ) मैंने ग्रीष्मावकाश कैसे बिताया

अथवा

मेरी अविस्मरणीय यात्रा

संकेत बिंदु-

- पर्वतों का आकर्षण
- यात्रा की तैयारी एवं प्रस्थान
- मनभावन स्थल
- अविस्मरणीय स्मृतियाँ

प्रश्न 11) निम्नलिखित विषयों पर पत्र लिखिए -

क) भविष्य में दसवीं के बाद क्या करना चाहते हैं। इससे अवगत कराते हुए अपने मामा जी को पत्र लिखिए।

ख) अपने पिता जी को पत्र लिखकर बताइए कि ग्रीष्मावकाश में आपने क्या-क्या कार्यक्रम बनाया है?

SCIENCE
BIOLOGY

- ❖ Complete the experiments in practical file.
- ❖ Make 20 MCQs from Chapter: the fundamental unit of life.
- ❖ Make a well labeled **model/working model/chart** on **any one** of the following topics.
 - Plant cell.
 - Animal cell.
 - Prokaryotic cell.
 - Any one cell organelle.
 - Representation of different types of muscular tissues.
 - Representation of different types of epithelial tissues.
- ❖ Do these questions in A4 size sheet
 - Q.1** Do you agree that “A cell is a building unit of an organism”. Explain with reason.
 - Q.2** Why does the skin of your finger shrink when you wash clothes for a long time?
 - Q.3** If raisins are separately kept in hypotonic solution, what will happen? Explain with reason.
 - Q.4** If you are provided with some vegetables to cook, you generally add salt into the vegetables during cooking process. After adding salt, vegetables release water. What mechanism is responsible for this?
 - Q.5** Explain the process of endocytosis in amoeba.
 - Q.6** Draw neat diagrams of plant cell and animal cell.
 - Q.7** Is virus unicellular or multicellular?
 - Q.8** Differentiate between diffusion and osmosis.
 - Q.9** What are the functions of plasma membrane?
 - Q.10** Name the scientist who
 - a. Discovered first living cell.
 - b. Discovered nucleus.
 - c. Coined the term ‘protoplasm’.

SUB – PHYSICS

1. Plan to go to a place by a vehicle. Take readings of odometer and speedometer after every 5 min. till you reach your destination. Record these observations in tabular form, plot the graphs between distance-time and speed-time. State whether the motion is uniform and non-uniform. Record this on A4 sheet.
2. Prepare 20 MCQs from MOTION on an A4 sheet, along with the answer key.
3. Practice 10 numericals related to EQUATIONS OF MOTION on an A4 sheet.

SUBJECT: CHEMISTRY

- ❖ Complete the experiments in practical file as discussed in class.
- ❖ Make 10 MCQs and 5 ‘Assertion Reason’ questions from Chapter: Matter In Our Surroundings.
- ❖ Write the Answers of the following questions in A4 size sheet.
 - a. Give three reasons to justify that water is a liquid at room temperature.

- b. At what temperature does the Ice melt? Why does the temperature remain same when it changes to liquid state.
- c. Is the inter-conversion of three states of matter possible? Illustrate with a schematic diagram.
- d. Distinguish between solids and gases on the basis of the following parameters:
 - 1. Interparticle distance
 - 2. Interparticle forces of attraction
 - 3. Compressibility.
- e. Explain with the examples from your daily life where cooling is caused by evaporation.
- f. Give Reasons:
 - 1. Water remains cool in earthen pots.
 - 2. During summer, sitting under a fan makes us comfortable.
- g. What is common name of solid carbon dioxide? What is its use?
- h. Differentiate between boiling and evaporation.
- i. Design an activity to show that gases are highly compressible as compared to solid and liquids.
- j. Draw a labelled diagram to show the phenomenon of sublimation of ammonium chloride

Physical Education

- Q1. Write the history of your game in 300 words
- Q2. Write any 15 Rules and Regulation of your game
- Q3. Explain any 10 terminologies related to your game.
- Q4. Write the achievements of your any 5 sports personalities and paste their pictures also.
- Q5. Write any 10 Sports competitions of your game.