

SUMMER HOLIDAY HOMEWORK

Prepared By: 

Name: _____

Class: _____

Section: _____

- Learn
- Explore
- Enjoy

Submitted To:

V R SENIOR SECONDARY SCHOOL



INSTRUCTIONS FOR THE PARENTS

Dear parents,

Warm greetings!

Holidays are time when you can connect with your child in many ways. Parents are the first and the most important teacher for a child. You can encourage your child to participate in many educational activities at home and promote his/her quests to learn while working together as it will not only help your child to build, learn and develop his/her skills but also strengthen your bond with him/her .

Homework has to be done under the parents' guidance. Make him/her read daily one or two pages from their books. Don't miss to take your child outdoors in the evening.

Fix up a timetable for your child to organize his/her daily routine like watching television, mobile surfing for information, playing with friends, studying, etc. Dictate them whatever they have read or written.

Make your child responsible by assigning some of the household responsibilities like watering plants, arranging the dining table, organize their room and fill the empty water bottles and put them in refrigerator.

Encourage your child to eat healthy food, avoid eating junk food, wear clean clothes, wash hands before and after every meal, trim their nails. Let them play and share their stories with their grandparents.

Above mentioned guidelines will help your child to become a smart and an active learner.

INSTRUCTIONS FOR THE STUDENTS

1. Get up early in the morning.
2. Wish your parents, grandparents and elders.
3. Pray to God daily.
4. Exercise everyday.
5. Brush your teeth twice a day in the morning and before bedtime.
6. Stay clean and healthy.
7. Do not play in the sunshine or at hot places.
8. Keep some water and food for birds.
9. Help the poor by giving them food, clothes or money.
10. Wash your hands with soap.
11. Do not waste water and electricity .
12. Do your vacation work by yourself.
13. Writing should be very neat and clean.
14. Try to do your written work regularly to enhance your writing skill.
15. Do one page of your English and Hindi writing books once a week.
16. Read your chapters loudly.

NOTE- Homework should be done neatly on a separate notebook.

CLASS- X SUBJECT- English

LITERATURE

Q-1. Write the short and long answers of chapter 2. **Nelson Mandela Long walk to Freedom** along With summary.

- Write Extract based questions of this chapter also. [page.247-249] in English workbook.

Q-2. Read the chapter-3 , **THE MIDNIGHT VISITOR.**

• Make summary of that along with key points and keywords. Q-3. Read the poems and make summary of them also.

- Fire and Ice
- A tiger in the zoo.

WRITING SKILLS

Q-4. Letter writing. [practice exercise]

Page No.-58, 59, 60, 61, in English work-book.

Q-5. Analytical Paragraph. [practice exercise] Page No.- 90 in English work- book.

GRAMMAR

Q-6. Gap Filling type (I) – Comprehensive Grammar practice Page No.-181-184 in English work-book.

READING SKILLS

Q-7. Discursive Passages- UNIT ASSIGNMENT- 1- Page No. 7-8 in English workbook.

Q-8. Case Based Passages- UNIT ASSIGNMENT -5,6- PAGE No. [33-34], [34-35] in English work-book

ग्रीष्मकालीन गृह-कार्य

कक्षा - X , विषय - हिन्दी

1- 'स्वयं प्रकाश' की किसी एक कहानी का सार अपने शब्दों में लिखिए। (लगभग-100-120 शब्दों में)

2- दस पेज का इमला लिखिए।

3- अपने विद्यालय की वार्षिक खेलरूढ़ प्रतियोगिता का वर्णन करते हुए मित्र को पत्र लिखिए।

4- किसी एक प्रेरणादायक कविता का संग्रह कीजिए तथा उसका भावार्थ अपने शब्दों में लिखिए।

5- 'सूरदास' या 'तुलसीदास' के जीवन पर एक परियोजना (Project) तैयार कीजिए।

6- "मोबाइल फोन के लाभ और हानि" विषय पर वाद-विवाद लेख तैयार कीजिए।

7- 'द्वितीज खण्ड - ख' पाठ - 2 (बालगोविन्द भगत) के प्रश्नोत्तर लिखने का प्रयास कीजिए।

8- कृतिका पाठ - 2 (साना - साना हाथ जोड़ें...) पाठ को ध्यानपूर्वक पढ़िए और प्रश्नोत्तर लिखने का प्रयास कीजिए।

...X—X—X—X...

Class: X Subject - MATHEMATICS

Note:- All Questions are compulsory

1. Represent the number system chart on your notebook. Also explain each type with example.
2. Learn and write the formula of C.S.A., T.S.A. and volume of the following and also draw its figure.
 - a) Cube
 - b) Cuboid
 - c) Cylinder
 - d) Sphere
 - e) Cone
 - f) Hemisphere
3. Write the definition of different types of polynomial on the basis of terms and degree with example on a chart paper.
4. The sum of two numbers is 45 and their difference is 9. Find the numbers using pair of linear equation in two variables by graphical method.
5. A polynomial is given by $p(x) = x^3 - 6x^2 + 11x - 6$
 - a) Verify whether $x = 1$, $x = 2$ and $x = 3$ are zeroes of the polynomial
 - b) Draw the polynomial on the graph paper and show that where the polynomial cut the x - axis.
 - c) Explain the relation between zeroes and the polynomial.

Activity (1):- Take any two consecutive integers such as 4 and 5.

Task:-

- i. Form a polynomial whose zeroes are these numbers.
- ii. Expand and simplify the polynomial.
- iii. Verify the relationship between zeroes and coefficients.
- iv. Repeat this activity with another set of integers.
- v. Prepare a short conclusion about pattern you observed.

Activity (2):- Visit a nearby shop or ask family members about prices of daily- use items.

Task:-

- i. Record price of two different items purchased in two different combinations.
[Hint- similar question given in NCERT chapter-3, Ex-3.1, Q1.(ii)]
- ii. Form two linear equations using the data.
- iii. Solve the equations graphically on graph paper.
- iv. Verify the solution algebraically.
- v. Explain which method was easier and why.

Activity (3):- A ball is thrown upward. Its height after time t seconds is given by:

$$h = -5t^2 + 20t + 25$$

Tasks:-

- i. Find the height of the ball after 1 second, 2 seconds and 3 seconds.
- ii. Determine when the ball reaches the ground.
- iii. Draw the graph of the equation on the graph paper.
- iv. Identify the maximum height reached by the ball.
- v. Explain how quadratic equation are used in sports and engineering.

Activity (4):-A player in a game called mine craft; build a rectangular castle floor of dimensions 432 blocks \times 576 blocks using square stone tiles of equal size.

Task:-

- i. Find the largest possible square tiles that can exactly fit in floor without cutting any tile.
- ii. Calculate the number of tiles required to cover the entire floor.
- iii. Which mathematical concept is used in this activity? Explain its importance in construction inside this game.

CLASS:- X SUBJECT:- PHYSICS

1. A concave mirror produces 10cm long image of an object of height 2cm. What is the magnification produced?
2. Size of image of an object by a mirror having a focal length of 20cm is observed to be reduced to 1/3rd of its size? At what distance the object has been placed from the mirror? What is the nature of the image and the mirror?
3. If the magnification of a body of size 1m is 2, what is the size of the image?
4. Find the position of an object, which when placed in front of a concave mirror of focal length 20cm produces a virtual image, which is twice the size of the object.
5. Find the position, nature and size of the image of an object 3cm high placed at a distance of 9cm from a concave mirror of focal length 18cm.
6. An object is placed at a distance of 12cm in front of a concave mirror. It forms a real image four times larger than the object. Calculate the distance of the image from the mirror.
7. A 2.5cm candle is placed 12 cm away from a convex mirror of focal length 30cm. Give the location of the image and the magnification.
8. An object is placed in front of a concave mirror of focal length 20cm. The image formed is 3 times the size of the object. Calculate two possible distances of the object from the mirror.
9. A concave mirror produces a real image 10mm tall, of an object 2.5mm tall placed at 5cm from the mirror. Calculate focal length of the mirror and the position of the image. An object is placed at a large distance in front of a convex mirror of radius of curvature 40cm. How far is the image behind the mirror?
10. An object is placed 15cm from a convex mirror of radius of curvature 90cm. Calculate position of the image and its magnification.
11. The image formed by a convex mirror of focal length 30cm is a quarter of the object. What is the distance of the object from the mirror?
12. When an object is placed at a distance of 60cm from a convex mirror, the magnification produced is 1/2. Where should the object be placed to get a magnification of 1/3?
13. An object is placed 18cm front of a mirror. If the image is formed at 4cm to the right of the mirror. Calculate its focal length. Is the mirror convex or concave? What is the nature of the image? What is the radius of curvature of the mirror?
14. A convex mirror used for rear view on an automobile has a radius of curvature of 3m. If a basis located at 5m from this mirror, find the position, nature and magnification of the image.
15. An object 3cm high is held at a distance of 50cm from a diverging mirror of focal length 25cm. Find the nature, position and size of the image formed.
16. A converging mirror of focal length 20cm forms an image which is two times the size of the object. Calculate two possible distances of the object from the mirror.
17. The linear magnification of a convex mirror of focal length 15cm is 1/3. What is the distance of the object from the focus of the mirror?
18. The focal length of a convex mirror is 12.5 cm. How far is its Centre of curvature (i) from the pole (ii) from the focus.

Class: X Subject - Chemistry

1. Sunita took 2 g of ferrous sulphate crystals in a dry boiling tube over the flame of a burner.

- (a) What is the colour of ferrous sulphate crystals?
- (b) Write the changes observed during heating of the crystals.
- (c) Name the type of reaction and define it.

2. On heating lead nitrate in a boiling tube, lead oxide, oxygen gas and a brown gas 'X' is formed.

Identify the type of reaction and the gas 'X'. Also write balanced chemical equation.

3. In the electrolysis of water:

- (a) Name the gases liberated at anode and cathode.
- (b) Why is the volume of gas collected on one electrode two times that on the other electrode?
- (c) What would happen if dilute H_2SO_4 is not added to water?

4. Show that aluminium is an active metal by experimenting on it.

- (a) Watch video demo for reference.
- (b) Perform two activities based on the video with aluminium foil and click photographs while doing so.
- (c) Note down the observations.

Write your views on an A4 sheet, paste photographs showcasing the usage of aluminium foil and also write about its role in creating pollution in the environment.

5. Create a model using coloured balls or clay to represent atoms and molecules in a chemical reaction.

Explain how atoms rearrange during a chemical reaction.

6. What is rock salt? Mention its colour and the reason due to which it has this colour.

7. Stain of curry on a white cloth becomes reddish-brown when soap is scrubbed on it and turns yellow again when the cloth is washed with plenty of water.

8. How would you distinguish between baking powder and washing soda by heating?

9. Explain the following in terms of gain or loss of oxygen with two examples each:

- (i) Oxidation
- (ii) Reduction

10. Prepare your notes of Chapter 2: Acids, Bases and Salt. You can take the help of internet.

Subject: Biology

Instructions:

- Complete all work in your Biology notebook.
- Draw diagrams using pencil.
- Original work will be appreciated.

Q.1 Draw neat and well-labeled diagrams of the following:

- Human Digestive System
- Human Respiratory System
- Human Heart (double circulation)
- Structure of Nephron
- Human Brain
- Reflex Arc
- Structure of Flower (L.S.)

Q.2 Activity Work

Activity 1: Sprouting Seeds Experiment

Activity 2: Balanced Diet Chart for a teenager

Activity 3: Pulse Rate Investigation

Observe pulse rate:

- Before exercise
- Immediately after exercise
- After 5 minutes rest

Q.3 Prepare the working/non-working biology model of :

- Nephron Model Roll No. (1-10)
- Plant Transportation Model Roll No. (11-20)
- Human Heart Model (clay) Roll No. (21-30)
- Biodiversity conservation Roll No. (31-40)
- Reflex arc (41-47)

Q.4 Write the answers of the following questions in your fair biology notebook.

a. A student skips breakfast daily but eats heavily at night. Analyze possible effects on digestion and metabolism.

b. Mountain climbers often breathe faster at high altitudes. Explain.

c. A person suffers severe blood loss. Explain how oxygen supply and body functioning will be affected.

d. Why does excessive fertilizer sometimes damage plants instead of helping them grow?

e. A city cuts down trees and replaces them with buildings. Predict long-term biological consequences on local biodiversity.

f. Explain why hormonal imbalance often affects multiple body systems rather than one organ.

g. Why is overexploitation of forests harmful even if trees are replanted later?

h. Why are plastics considered harmful even when thrown “away”?

i. Why do we immediately pull our hand away after touching a hot object even before realizing pain?

j. “Human activities disturb ecological balance.” Justify with examples.

Class X Subject – History

Activity Based Holiday's Homework.

Activity – 1

Prepare related Nationalism a colorful timeline of important events of Nationalism in Europe and in India.

- | | |
|-----------------------------------|--------------------------------|
| a- French Revolution | e - Non-Cooperation Movement |
| b- Vienna Congress | f- Civil Disobedience Movement |
| C- Unification of Germany | g - Quit India Movement |
| d- Formation of National Congress | h- Independence of India. |

Activity - 2

Map Work

Europe Map	India Map
France	Champaran
Germany	Kheda
Italy	Chauri chaura
Greece	Dandi
Balkan States	Ahmedabad
Albania, Bosnia and Romania	Amritsar
	Congress, session – Bombay, Calcutta, Lahore , Karachi and Nagpur.

Activity – 3

1. Compare the historical ideological and structural frameworks of the revolutionary movements in India and Europe (French Revolution) through a comparative chart. The analysis must include the nature, course , prominent leaders and ideas of nationalism also include how international events shape the cross pollination of radical ideas between India and Europe.

Activity – 4

2. Design a Nationalism Tree of Europe.

- Use root portion to show different causes leading to revolutions.
- Use trunk portion to show course of revolution.
- Use branches to show revolutions of different area like Germany, Italy, Greece, Poland, Balkans.
- Use leaves to show important leaders involved in each revolution.

• **Activity – 5**

3. Create a conversation of any one of the given topics.

- Raghu, a farmer of Amritsar discusses the Jallianwala Bagh Massacre with his grandchildren as a survivor.
- Gandhi ji speaking to a British officer telling why he made salt at the end of Dandi March.
- A congress leader telling his party worker why Non – Co operation Movement was started and stopped.
- A doctor telling a nurse how Lala Lajpat rai died and the reason behind his death.

CLASS:- X SUBJECT:- Economics

Create a project file of 25-30 page on the topic "The efficacy of the Consumer Protection Act, 2019 in safeguarding E-commerce Consumers: A comparative study of awareness and redressal mechanisms."

Your project file must include the following heads: a)

Introduction & Objectives

b) E-commerce in India: The shifting marketplace

c) The Legal framework: Consumer protection Act, 2019 vs. E-Commerce Rules, 2020.

d) Comparative Analysis: Awareness & Redressal

e) Grievance Redressal Mechanisms (NCH & CCPA)

f) Case Studies and Emerging Challenges

g) Conclusions and Recommendations

h) Bibliography

Class:-X Subject- Political Science

1- Power sharing – Create a 3d flip chart using cardboard

Create a comparison chart of Belgium vs. Srilanka.

Belgium	Srilanka
Power shared	Majoritarianism
Peaceful co-existence	Ethnic conflict
Equal representation	Tamil Discrimination

Also add National Flags of both the countries including community symbols and Drawings/Maps.

2- Mini Constitution Role play with photos

Student act an: a) Prime Minister b) Elections c) Equality d) Minority leaders e) Community representatives f) Corruption and g) Democracy

Write 3-5 lines explaining the topics.

3- Power-sharing tree-

Draw a big tree on Chart paper =

Roots	Democracy
Trunk	Constitution
Branches	Legislature, Executive and Judiciary
Leaves	Citizen's Rights

Write 3 importance of power sharing on each leaf.

4- Creative Slogan writing on =

A) Unity and Diversity through Power Sharing

B) Sharing power Builds democracy

C) Equal Rights Strong Nation

- Students can decorate slogans with each topic and mention national symbols.

5- Federalism – Project File

1- Meaning and features of Federalism

2- Union, state, concurrent and Residuary Lists.

3- India is a quasi-federal system

4- Panchayati Raj System with example

5-Co-operative federalism with its features and importance.

6-Women's participation in politics. (Name any 5 famous political leaders of India)

6- Scrap book project-

Collect Newspaper articles on Daily State wise events.

Coalition Government with Centre state relationship and their dispute.

7- Interview Activity -

Take an interview of the following people: a) Village Pradhan b) Teacher c) Health worker d) Municipal member e) Police officer.

Q.1- How decisions are made?

Q.2- Why power sharing is important to our country?

Q.3- Which article of the constitution divides power between the union and state government?

Q.4- How does democracy helps citizens?

Q.5- Why is local government so important for us?

Q.6- Difference between Unitary and Federal Government system?

Q.7- Explain the recent election process of India conducted in the 6 states of the country.

CLASS-X

HOLIDAY HOMEWORK

SUBJECT-GEOGRAPHY

- 1- Explain the importance of forests and wildlife in India.
Why is conservation necessary?**
- 2- Explain the importance of water resources in India.
What are the methods of water conservation?**
- 3- Describe how communities have conserved and
protected forests and wildlife in India?**
- 4- How have human activities affected the depletion of
flora and fauna? Explain.**
- 5- What is biodiversity? Why is biodiversity important for
human lives?**
- 6- Collect more information on the wildlife sanctuaries
and national parks of India and cite their locations on
the map of India.**

Note:- All Questions are compulsory.

Activity 1: MS word Project.

Create a 3 – 4 page document in MS word on .(any 1 of the following topics)

- a) Role of information technology in daily life.
- b) Uses of MS office
- c) Save environment

Activity 2: PowerPoint skills.

Create a PowerPoint presentation (5 – 7) slides on. (any 1 topic)

- a) Cyber safety and security.
- b) Artificial Intelligence
- c) Robotic in daily Life
- d) Space Exploration

Activity 3: Theory Work.

Answer the following question.

Q1. Explain about different types of barriers to communication.

Q2. What are SMART goals?

Q3.Explain any five the functions of the Internet.

Q4. State the Differences between hardware and software.

Q5. Write short notes on.

- a) Digital Documentation
- b) Database Management System
- c) Spreadsheet Features.

Activity 4: Creative Work.

Choose any one.

- a) Make a chart on computer Generations.
- b) Prepare a cyber safety poster
- c) Create a keyboard shortcut chart
- d) Make a flowchart of online communication.

Activity 5: Practical Work. (Any Two)

1. Create a resume in MS Word.
2. Create a chart in MS Excel.
3. Design a presentation in PowerPoint.
4. Create a school timetable using Tables.
5. Create an invitation card using Word.