

Class 9 Holiday Homework (Summer Vacation)

Subject: Science (Biology & Physics)

Submission Date: 1/2 days after reopening school

Part A: Biology – Herbarium File Project

Objective: To develop observation skills and learn about plant diversity.

Instructions:

1. Prepare a Herbarium File with 10 different plant specimens.
2. Collect real leaves of medicinal, ornamental, and wild plants from your surroundings.
3. Dry and press each leaf properly and paste it on an A4 sheet.
4. For each specimen, write the following:

Common Name

Scientific Name

Family

Local Uses (if any)

Place and Date of Collection

5. Decorate the file neatly and creatively.
6. Ensure sustainable collection – do not pluck from rare or protected plant

Part B: Physics – Motion Chapter

Objective: To practice numerical problem-solving based on concepts of Motion.

Instructions:

1. Solve 50 numerical problems from the chapter "Motion".
2. Include a mix of the following types of questions:

Average speed and velocity

Uniform and non-uniform motion

Acceleration

Equations of motion (u , v , a , s , t)

Graph-based questions (distance-time and velocity-time graphs)

3. Write each solution step-by-step in a separate notebook or sheets.

Holiday Homework of computer

Make a project file of 15 pages on any 1 of the following topics:-

1. Artificial Intelligence
2. Python programming language

Make file handwritten and use images

Holiday Homework of Summer Vacation

Subject – English

Q 1) Write paragraph on the following topics

- a) Impact of social influencers over teenagers
- b) Pathetic life of students due to increase in competition
- c) Tolerance – path way to divine
- d) The zoo should be banned for the sake of animal freedom.
- e) Rise of AI and its impact on global security

Q 2) Write one play out of given topics in 500 words.

- a) Comedy
- b) Tragedy
- c) Prejudice
- d) Heroism

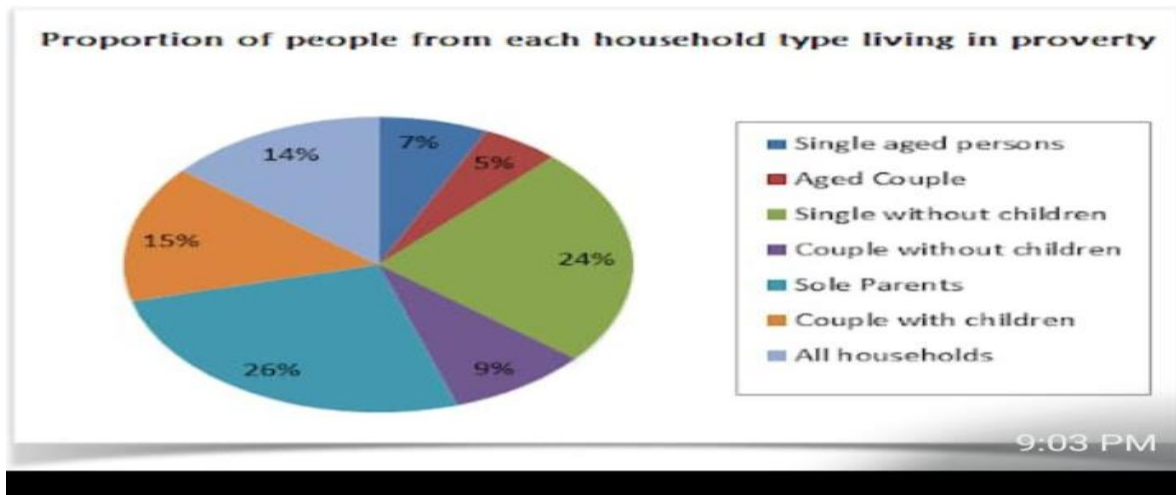
Q 3) Write two words each day from June 1 to June 30 with meanings and sentences.

Q 4) Write the summary of chapters taught to you in 150 words each.

Q 5) Make a project file on any *writer* or *poet* from your ncert book.

The file should contain these pages.

- Project File: *Title-Name of Writer/Poet*
- * Objective
- * Introduction
- * Methodology
- * Findings/Results (Creations of writer/poet)
- * Summary and description of one creation with literary devices
- * Conclusion



Internet Activities by Age Group

Activity%	Age group						
	Teens	20s	30s	40s	50s	60s	70+
Get News	76	73	76	75	71	74	70
Online games	81	54	37	29	25	25	32
Downloads	52	46	27	15	13	8	6
Product research	0	79	80	83	79	74	70
Buying a product	43	68	69	68	67	65	41
Searching for people	5	31	23	23	24	29	27

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* Recommendations

* References

Q 6) The pie chart shows the proportion of people from different households living in poverty in the UK in 2002. Write an analytical paragraph to describe the information in 100-120 words. (Picture attached)

Q 7) The following table shows details about the internet activities for six categories for different age groups. Write an analytical paragraph for the table given in around 150-200 words. (Picture attached)

Holiday Homework of Summer Vacation

नीचे दिए गए कार्यों में से कोई भी दो कार्य चुनें और गर्मी की छुट्टियों के दौरान पूरा करें:

1. किसी एक कहानी या कविता का नाट्य रूपांतरण करें (उदाहरण: प्रेमचंद की कहानी, या हरिवंश राय बच्चन की कविता)। इसे सुंदर तरीके से चार्ट पर लिखें या एक स्क्रिप्ट के रूप में प्रस्तुत करें।
2. आपका प्रिय त्योहार (जैसे - दिवाली, होली, ईद, रक्षाबंधन आदि) पर एक निबंध या संस्मरणात्मक लेख लिखें।
3. अपने दादा-दादी या माता-पिता से सुनी गई कोई लोककथा या बचपन की कहानी को सुंदर ढंग से लिखें।
4. समाचार पत्र पढ़कर हर सप्ताह दो रोचक समाचारों की कटिंग एकत्र करें और उन पर 4-5 पंक्तियों में अपनी प्रतिक्रिया (मंतव्य) लिखें।

Subject MATHEMATICS

1. Prepare a project file on the topic TRIANGLES (types of triangles on the basis of sides and angles) & CONGRUENT TRIANGLES.
2. Write and learn squares (up to 30) and cubes (up to 20) of natural numbers.
3. Write and learn all the algebraic identities from chapter 2 polynomials.
4. Solve all the examples and questions of chapters 1 and 2 from the NCERT textbook on your homework notebook.

Holiday Homework Social Studies

1. Write 20 important History dates. (Find out from your History textbook) in the form of an attractive flash cards.

2. Prepare a project in a project file on the topic “Disaster Management” including Flood, Nuclear Explosion, Earthquake, Drought, etc

(15-20 A4 size papers)

The project must adhere the following checklist:-

1. Front page
 2. Acknowledgment
 3. Certificate
 4. Index
 5. Detailed topic presentation with photo and data.
 6. Conclusion
 7. Bibliography
3. Make a handmade Atlas on the parameters allotted to you.