

Class-11 Science
Holiday Homework 2026-27
PHYSICS

1. Write any 50 dimensional formula of physical quantities with their SI units.
2. Do any ten numericals related to uses of dimensional analysis.
3. Derive the all equations of motion (First, Second, Third) by graphical and calculus method in separate sheets.
4. Write different types of vector with diagram.
5. Do the addition of vectors, subtraction of vectors, multiplication of vector (Dot and Cross product).

Note: Do the physics Holiday homework in file Sheets.

CHEMISTRY

1. How many grams of pure calcium carbonate (CaCO_3) are required to react completely with 250 mL of 0.50 M HCl according to the following reaction?



2. A welding gas contains carbon & hydrogen only. Burning a small sample of it in oxygen gives 3.38 g of carbon dioxide, 0.690 g of water, and no other products. A volume of 10.0 L at STP of this welding gas is found to weigh 11.6 g. Find its:

- a) Empirical formula
- b) Molar mass
- c) Molecular formula

3. How much Magnesium Oxide (MgO) will be formed by the complete thermal decomposition of 42 g of Magnesium carbonate (MgCO_3)? Calculate the volume of CO_2 gas evolved at STP as well.

4. 3.0 g of Hydrogen gas reacts with 29.0 g of Oxygen gas to yield water.

- a) Identify the limiting reagent.
- b) Calculate the maximum amount of water (in grams) that can be formed.
- c) Calculate the mass of the excess reactant left unreacted.

5. When a hydrated salt is heated, loss in mass is 51.2%. In anhydrous salt the % composition is Mg = 20%, S = 26.66% and O = 53.33%. Molecular mass of anhydrous salt is 120. What is the formula of anhydrous salt and hydrated salt?

BIOLOGY

Chapters: The Living World, Biological Classification, Plant Kingdom & Animal Kingdom

Activity – 1 The Living World – Observation of Living Organisms Observe any 10 living organisms around your home or school and write their common name, scientific name and habitat.

Activity – 2 Biological Classification – Five Kingdom Chart Prepare a colourful chart showing Monera, Protista, Fungi, Plantae and Animalia. Write one characteristic and one example of each.

Activity – 3 Plant Kingdom – Collection of Plant Leaves Collect and paste leaves of different plants. Identify whether they belong to Bryophytes, Pteridophytes, Gymnosperms or Angiosperms. Write one feature of each group.

Activity – 4 Animal Kingdom – Animal Classification Paste pictures of 8–10 animals and classify them into Vertebrates and Invertebrates. Further divide vertebrates into Pisces, Amphibia, Reptilia, Aves and Mammalia.

Activity – 5 Diagram Practice Draw and label:

1. Five Kingdom Classification
2. Structure of Amoeba
3. Spirogyra
4. Moss Plant
5. Fish and Frog

Activity – 6 Herbarium Activity Prepare a mini herbarium using 5 dried leaves. Write the name of plant, type of venation and uses of plant.

1. MATHS

1. Complex number
 2. Trigonometry
- complete both chapter from NCERT book
each questions

2. ENGLISH 11A,B

Instructions for the students:

- Do your holiday homework in your English language notebook.
- Mention date and day when you do your work.
- Use your creativity and imagination wherever required.
- Submit your holiday homework when the school re-opens.

1. Write a story review of the chapter 'The Portrait of a Lady' or 'The Summer of the Beautiful White Horse' in about 200 - 250 words.

- Begin with the gist of the story.
- Then write how did you like the story and why?
- Then explain which part of the story you liked the most and why?
- Then mention which character is your favourite in it and why?
- And then the conclusion.

2. Read any one English newspaper daily and cut out the classified ads (2 each) from it and paste it in your

English language notebook.

- For sale
- Situation wanted
- Lost and found
- Situation vacant
- Tour and travels
- Matrimonial
- Missing

3. Research about the winner of the 2023 Nobel Prize in literature and write an article in about 120-150 words in your English notebook profiling his/her accomplishments

4. Create a poem on the topic '**My dream destination**'

5. Read novel "To Kill a Mocking Bird" by Harper Lee.

- Write in about 100-120 words about your favourite character.
- Write any five favourite dialogues from the novel.
- Write 20 new words with their meanings and also frame sentences with it.

3. HINDI

1. 10-10 अपठित गद्यांश पद्यांश किसी भी व्याकरण पुस्तक के आधार पर
 2. लेखन – 4-4 डायरी,
 3. 4-4 औपचारिक पत्र,
 4. 4-4 रचनात्मक लेखन, नए और अप्रत्याशित विषयों पर लेखन।
- कक्षा में कराया गया सम्पूर्ण लिखित कार्य (आरोह बितान) सुचारु रूप से उत्तर पुस्तिका पर करना है।

4. PHYSICAL EDUCATION

Topic: Fit India Movement & Khelo India Movement

Activity: Make a Chart on Your Favourite Game

Instructions for Students

Make a colourful chart on your favourite game.

Paste or draw pictures related to the game.

Use neat handwriting and decorate the chart properly.

5. COMPUTER SCIENCE

Section A-Very Short Answer Questions ; Answer the following in 1-2 lines.

1. Define a computer system.
2. What is hardware?
3. What is software?
4. Name any two input devices.
5. Name any two output devices.
5. What is CPU?
7. Expand ALU and CU.
8. What is memory?
9. Differentiate between RAM and ROM.
10. What is an operating system?

Section B-Short Answer Questions

Answer the following in 30-50 words.

1. Explain the functions of CPU.
2. Differentiate between primary memory and secondary memory.
3. Write any four features of a computer.
4. Explain the role of an operating system.
5. What is the difference between system software and application software?
6. Explain the IPO cycle with an example.
7. What are storage devices? Give examples.
8. Explain the terms bit, byte, KB, MB, and GB.

Section C-Long Answer Questions

Answer the following in detail.

1. Draw and explain the block diagram of a computer system.
2. Explain different types of software with suitable examples.
3. Compare HDD and SSD.
4. Explain different generations of computers.
5. Describe various input and output devices used in modern computers.

Activity 1 :

Make a chart showing:

Types of Memory

Storage Devices

Examples of Software

Collect pictures of any 10 computer devices and paste them in your notebook with their names and uses.

Section D-Assignment Based Questions

1. Why are computers important in education?

2. Explain the use of computers in:

a. Banking b. Hospitals c. Railways d. Business

3. Write a short note on:

a. Artificial Intelligence b. Cloud Computing c. Cyber Security