

**RAMAKRISHNA SENIOR SECONDARY SCHOOL**  
**SUMMER HOLIDAY HOMEWORK**

**CLASS XI (2026-27)**

**Dear Parents,**

**Greetings from the RKS Fraternity!**

The Academic Session 2026-27 has begun in full swing and students have settled well in their classes. Now is the time for Summer Break. The School will be closed for Summer Break from **May 30, 2026 to June 30, 2026. The school will reopen on July 1, 2026.** In order to keep our students well engaged, we are sending the Summer Holiday Homework.

**General Instructions:-**

1. Do all the work as specified by the subject teacher.
2. Submit your Holiday Homework in the first week of July as per the teacher's instructions.
3. The students must do their work neatly in their own handwriting.

Marks of Internal Assessment will be awarded only if the students do the work in their own handwriting. Summer Vacations are the most awaited holidays by the students. It is also a time to enjoy those little pleasures of life that get overlooked during the busy school routine. They get a positive bounce back when they rejoin school after this much-needed break. There are a few things that students can keep in mind to utilize this break fruitfully.

- Go for educational trips and excursions.
- Spend quality time with family and friends
- Pursue your hobbies and interests
- Sharpen your skills and develop new ones
- Follow a fitness regime to stay agile both mentally and physically
- Learn and explore new things
- Relax your body and mind because, **'A Healthy Mind Lives in a Healthy Body'**.

**Have a delightful and productive Summer Break !**

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**ENGLISH:**

**1. Project Work**

Prepare a **General Studies Project** on the topic **'Science and Technology'** on **A4 sized white ruled sheets.**

The project should be prepared under following headings-

- **Application of Science and Technology**
- **Emerging Technologies**
- **Science and Technology in the Social Context**
- **'Science and Society'**

Use Resources such as newspapers, books, magazines, TV Channels and the internet (relevant websites) can be used.

The project should include the following:

- **Cover Page (Name, Class, Section)**
- **Title of the topic**

- Index
- Certificate of Completion
- Acknowledgement
- Introduction to the topic
- How science and technology are related
- Role of advancing technology in the society
- Application of technology benefitting the society
- Enumerate the emerging technologies
- What will be your contribution towards the simultaneous development of society and technology
- Conclusion
- Bibliography/ list of resources used

2. Attempt Unseen Comprehension (to be done in the book- Evergreen Practice Papers)  
Evergreen Practice Papers 1,2, and 3

3. Grammar Practice (to be done in the book- Evergreen Practice Papers)  
Gap Filling : Exercises 1 to 4 - Editing: Exercises 1 to 4

4. Creative Reflection Task (to be done in English register – 150 words)

Imagine standing between two mirrors: one shows how others perceive you, and the other shows who you truly are when you are completely alone.

Write a short reflection on a time you felt a major difference between these two versions of yourself. Describe the situation, how you handled the pressure to fit in, and what you learned about your true identity.

5. Reading and Literary Enrichment: (to be done in English register) (150 words)

Explore the theme of unspoken love and quiet dignity in *The Portrait of a Lady*. How do the grandmother's daily routines, her relationship with nature (the sparrows), and her ultimate departure highlight a love that doesn't rely on words?

6. Revision: Revise all the topics covered so far.

7. Reading and Reflection Assignment – Read the book *Treasure Island* by Robert Louis Stevenson and write a brief review (120–150 words).

Submission Guidelines:

- Submit your project in a neatly bound file with a cover page.
- Project should be handwritten only.
- Diagrams, illustrations, and photos (if used) must be pasted neatly.
- Date of Submission: July 2, 2026

## **PHYSICS**

1. Prepare a General studies project on the following topic: "Workforce education skills"

- Soft skills
- Digital skills
- Industry specific skill
- Financial skills

2. Do the following questions of Chapter-Vector in CW/HW Register.

Q1. If the magnitude of Cross product of two vectors is equal to 1.732 times of Dot product of both vector, find the angle between two vectors.

Q2. If the magnitude of resultant of addition of two vector is equal to the magnitude of subtraction of both vector, find angle between two vectors.

Q3. The resultant of two equal forces acting at right angle to each other is 1414 dyne. Find the magnitude of either force.

Q4. When the angle between two vectors of equal magnitude is  $2\pi/3$ , prove that magnitude of resultant is equal to either.

Q5. Prove that vector  $A = i+2j +3k$  and Vector  $B = 2i - j$  are perpendicular to each other.

Q6. If vector  $P + Q = R$  And magnitude of P, Q and R are 5, 12, and 13 units, Find the angle between Q and R.

Q7. Prove that the magnitude of subtraction of two unit vector is  $2 \sin A/2$ , where A is angle between both unit vectors.

Q8. Determine the angles which the vector  $A = 5i + 0j + 5k$ , makes with X, Y and Z axis.

Q9. If vector  $A = 2i + 3j - k$  and  $B = i + 2j + 2k$ , then find magnitude of component of vector A along Vector B.

Q10. Find a unit vector perpendicular to vector  $A = 4i - j + 3k$  and Vector  $B = -2i + j - 2k$ .

Q11. Find the area of triangle formed by point O, A and B such that vector  $OA = i + 2j + 3k$  and Vector  $OB = -3i - 2j + k$ .

Q12. If magnitude of vector A and Vector B are 2 and 7 and vector  $A \times B = 3i + 2j + 6k$ , find the angle between vector A and B. Topic Projectile Motion

Q13. A body is projected horizontally from the top of a tower with velocity 9.8 m/s. What time elapses before horizontal and vertical velocity become equal.

Q14. A body is thrown horizontally from the top of a tower and strikes the ground after 2 second at angle 45 degree with horizontal, what is speed of thrown the ball and height of Tower.

Q15. A boy stands at 39.2 m from a building and throws ball which just passes 19.6m window above ground. Calculate velocity of projection of ball.

Q16. Show that there are two angles of projection for which the horizontal range is same. Also Show that the sum of maximum height for these two angle is independent of the angle of projection.

3. Complete the Practical File with Experiments done so far.

4. Revise all the topics done in the class till now.

## **CHEMISTRY**

1. **GENERAL STUDIES PROJECT** (as per CBSE guidelines)

Topic : **Current trends in Socio-Economic Structure**

Prepare a project report on the above topic.

Instructions to be followed:

i. Maximum pages: 10-12

ii. Use white A4 sized ruled sheets(one side) only 3 Sub topics to be covered in the project report:

- a. Current trends in socio economic structure
- b. Socio Economic Structure
- c. Implementing Social Protection Strategies
- d. Limitations and uncertainties of Socio economic structure

2. Complete the classwork done so far and do the following questions in the CW/HW Notebook. Ch-2 : Back exercise questions-Q.2.1 to Q.2.8

3. Write the practicals in your practical file.

A. Basic Laboratory Techniques

1. Cutting glass tube and glass rod
2. Bending a glass tube
3. Drawing out a glass jet
4. Boring a cork

B. Characterization and Purification of Chemical Substances 1.

Crystallization of impure sample of the following salts : Alum, Copper Sulphate

4. Make a working model on the following topics of chemistry mentioned below as per the allotment. Prepare a chart and presentation report for the same.

- a) Photoelectric effect - Ananya Tewari, Kritika , Ananya Bansal , Vidushi
- b) VSEPR Theory - Saransh , Anish , Ishant Chauhan
- c) Atomic spectra - Naman Narang , Tejas Khanduja , Piyush Mandal

5. Revise and practice all the assignments of question Bank in A-4 sized ruled sheets and make a folder. Click the below mentioned link :

[QUESTION BANK CLASS - XI-CHEMISTRY](#)

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### **MATHS**

1. Make the general studies project on the topic,  
“ Nation buliding”

\* Meaning and importance of National Internation.

\*Historical context of Nation Building.

\*The role of education and media in Nation Building

\*Challenges and Limitations of Nation Building.

2.Click the below mentioned link and do the question bank.

[Question Bank\\_MCQ.docx](#)

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### **COMPUTER SCIENCE [All HHW to be submitted on 1st July]**

• Revise CH 1, 2 and 3 for revision test after school reopens.

• Do the following questions from Text Book in Computer Science CW/HW register:

1. Ch 1: Computer System Overview (Pg 20)

Q3, Q8, Q11, Q24, Q27

2. Ch 2: Data Representation (Pg 44)

Q3 part b, Q4 part a, Q5 part a, Q6 part c, Q7 part c, Q8 part a,

Q10 part b, Q11 part a, Q14 part b, Q16 part a, Q18 part b

3. Ch 3: Boolean Logic

Pg 71: Q3 (all parts),

Pg 74: Q18, Q23

Pg 76: Q1, Q2, Q3, Q4, Q5, Q15, Q16, Q17, Q18

- Make a General Studies Project for the given topic covering the given sub points. The project must include 10-12 pages.

**\*Promoting Global Understanding\***

i) Global Conflict analysis and resolution

ii) Global Voices

iii) Global Environmental Ethics

iv) Global Understanding through Travel

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## **BIOLOGY**

A) Do all the experiments on big sheets as per your file size (green colour) one side plain and other side ruled.

For diagrams used plain side only. (Refer Biology Lab Manual)

Exp 1: Study and describe locally available common flowering plants, from family Solanaceae (Pg no.24)

Exp 2: Preparation and study of T.S. of dicot and monocot roots and stems (primary). (Pg no. 34-38)

Exp 3: Study of osmosis by potato osmometer. (Pg no.40)

Exp 4: Study of plasmolysis in epidermal peels (e.g. Rhoeo/lily leaves or flashy scale leaves of onion bulb). (Pg no. 42-43)

Exp 5: Study of distribution of stomata on the upper and lower surfaces of leaves. (Pg no.45)

Exp 6: Comparative study of the rates of transpiration in the upper and lower surfaces of leaves. (Page no.48)

Exp 7: Test for the presence of sugar, starch, proteins and fats in suitable plant and animal materials. (Page no. 51-52)

Exp 8: Separation of plant pigments through paper chromatography. (Page 55)

Exp 9: To test for presence of urea, sugar, albumin, bile salts in urine sample( Page no. 62-66)

Exp 10: To study parts of a compound microscope. (Page no. 69)

Exp 11: Specimens/slides/models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus,

mushroom, yeast, liverwort, moss, fern, pine, one monocotyledonous plant, one dicotyledonous plant and one lichen. (Page no.73-85)

Exp 12: To study the various animal specimens/slides/models and identifying features of - Amoeba, Hydra, liver

fluke, Ascaris, leech, earthworm, prawn, silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and

rabbit. (Page no. 86-100)

Exp 13: Mitosis in onion root tip cells and animal's cells (grasshopper) from permanent slides.  
(Page no. 102 107)

**B) Make a General Studies Project for the given topic covering the given sub points. The project must include**

**10-12 pages.**

**\*Promoting Global Understanding\***

**i) Global Conflict analysis and resolution**

**ii) Global Voices**

**iii) Global Environmental Ethics**

**iv) Global Understanding through Travel**

**C) Revise all the topics done in the class till now. ( Ch-1 to 4)**

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## **PHYSICAL EDUCATION**

**\*File Work\***

1. **GAME** Proficiency in Games and Sports (Skill of any one IOA recognized Sport/Game of your choice. Including:

1. History of the game
2. Labelled diagram of field/court paste/draw.
3. Equipment used
4. Fundamentals Skills
5. Terminologies
6. Basic Rules

2. **TRADITIONAL SPORTS** Write any ten traditional sports and paste their pictures in front of them. Two traditional sports should be done on one page. These traditional sports can be found in Chapter no. 5 of the Physical Education book.

3. **\*Project Work\*** Make the project on general studies on the topic "Human Rights"

- The universal declaration of Human Rights and its significance
  - The responsibility of individuals, communities, and business in promoting Human Rights.
  - The relationship between Human Rights and sustainable development.
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## **PAINTING**

**\*Practical\***

1- Make One still Life with water colors or pastel colour.

2- Make One Landscape with water colors. Note: Do your work in your sketch book.

**\*Theory\*** Complete Chapter 1 "Art an Introduction "in your Note book.

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## **WORK EXPERIENCE**

Prepare a Project on

Visit an Old Age Home and organise the activities for the aged people.

Title of Project file: Visit to an Old Age Home.