



Sacred Heart Convent Sr. Sec. School

Tejli Road, Jagadhri, Haryana, India

HOLIDAYS HOME WORK

CLASS XI A/B

2025-2026

SUMMER VACATIONS' HOMEWORK



Dear Parent

Should we judge a dolphin by its ability to climb a tree?

We do not wear the Board exam marks on our sleeves? Right.

But They do signify a simple thing: it quantifies the level of sincerity and sense of responsibility of a student as per the level of the complexity of the subjects each one studies. This sense of sincerity and responsibility should begin from the time the student steps in XI. With mercury rising to unprecedented heights, it is that time of the year where Summer Vacations provide us a little respite from the scorching heat. At the same time it also allows students enough time for introspection, reviewing past performances, learning from mistakes, goal setting, planning strategically and tactically, identifying obstacles to success. Gearing up for this wonderful period of rejuvenation, let us prepare ourselves to utilize our time in many constructive ways. So, with the idea of fostering new learning experiences and to enhance individual inquisitiveness, the school has planned some to channelize the energies of the young MINDS.

Here are some guidelines for you to invigorate your ward while giving him the chance to enjoy this period of unrestrained fun.

Tel: 01732-231049

Website: www.shcsjagadhri.org

Email: contact@shcsjagadhri.org



Sacred Heart Convent Sr. Sec. School

Telli Road, Jagadhri, Haryana, India

- Learning doesn't stop when school is out.
- Work smart, not hard.
- For every hour of electronics time, you owe an hour of outside playtime.
- Reading is a must.
- Before you ask for a favor, do a chore.
- There's no sleeping all day or staying up all night.
- Be honest to a fault.
- Question every fact
- Do better today than you did yesterday.

CHEMISTRY:-



***Instructions:** *Neatly write all the answers in your science notebook.

CHAPTER 1: SOME BASIC CONCEPTS OF CHEMISTRY ASSIGNMENT (will be sent in pdf form in class group)

CHAPTER 2: ATOMIC STRUCTURE ASSIGNMENT (will be sent in pdf form in class group)

1. To revise the topics done till date by reading the text book and notes. Practice all the type of numerical done in class and do the questions from back exercise also in Chemistry notebook.

Tel: 01732-231049

Website: www.shcsjagadhri.org

Email: contact@shcsjagadhri.org



Sacred Heart Convent Sr. Sec. School

Tejli Road, Jagadhri, Haryana, India

2. To write a science article for school magazine.

3. To inculcate scientific temperament and for understanding the conceptual knowledge of chemistry, students have to prepare a GLOSSARY OF CHEMISTRY. Add relevant pictures, diagrams and related to these discoveries. Use A-4 size sheets and write in neat handwriting. Glossary must comprise of 10 Chemistry terms (with their definitions) of each alphabet including Laws, formulas, principles and micro scale chemistry apparatus.

4. Activities: - Explain and Make a video of any topic of chemistry and send it PERSONALLY ON WATSAPP.

5. Experiments provide insight into cause-and-effect by demonstrating what outcome occurs when a particular factor is manipulated. Prepare a CHEMISTRY INVESTIGATORY PROJECT on the topic assigned to you by the subject teacher in the class. Use A4 size sheets for the project including various newspaper clippings, images, latest discoveries and inventions relevant to the topic.

Follow the given headings in the project: a) INTRODUCTORY PAGE b) CERTIFICATE c) ACKNOWLEDGEMENT d) INDEX/CONTENTS e) INTRODUCTION f) AIM g) CHEMICALS REQUIRED h) PROCEDURE/EXPERIMENT(S) i) OBSERVATIONS

j) RESULT k) CONCLUSION l) BIBLIOGRAPHY.

***LIST OF PROJECTS:**

a) Checking the bacterial contamination in drinking water by testing sulphide ion.

b) Study of the methods of purification of water.

c) Testing the hardness, presence of iron, fluoride, etc., depending upon the regional variation in drinking water and study the causes of presence of these ions above permissible limit (if any).

d) Investigation of the foaming capacity of different washing soaps and the effect of addition of sodium carbonate on it.

e) Study the acidity of different samples of tea leaves.

Tel: 01732-231049

Website: www.shcsjagadhri.org

Email: contact@shcsjagadhri.org



Sacred Heart Convent Sr. Sec. School

Telli Road, Jagadhri, Haryana, India

- f) Determination of the rate of evaporation of different liquids.
- g) Study the effect of acids and bases on the tensile strength of fibers.
- h) Study of acidity of fruit and vegetable juices.
- i) To prepare rayon threads from filter papers using cup ammonium process.
- j) Comparative study of commercial antacids by determining the amount of hydrochloric acid they can neutralize.
- k) To study the adulterants in food stuffs like fat, oil, butter, sugar, chili powder, turmeric powder and pepper etc.
- l) Preparation of alum from scrap aluminum.

OR

***Prepare an Innovative Project of Science.**

INFO TECHNOLOGY :-

Revise the topics done in the class.

Activity 1: Create a Power Point Presentation on the topic EMERGING TRENDS. (Presentation must include the topics like AI, IoT, Blockchain Technology, Cloud Computing & Grid Computing).

Note: Prepare 17-20 slides using all the tools and features of PPT.

Activity 2: Design a digital poster on the topic "Impact of Digital Technologies on Health" using Canava or others software's.

BIOLOGY :-

Q. 1- Make "Investigatory project" with following heading in it.

- First page- topic, submitted to/submitted by
- Certificate
- Acknowledgment
- Contents
- Introduction

Tel: 01732-231049

Website: www.shcsjagadhri.org

Email: contact@shcsjagadhri.org



Sacred Heart Convent Sr. Sec. School

Tejli Road, Jagadhri, Haryana, India

- Theory
- Observation
- Conclusion
- Bibliography

Q.2- Revise the chapters UNIT V CH 16,17,18, and practice diagrams .

Q3- Complete the Biology Practical file,from lab manual. Also draw diagrams of skeletal system, all the bones and joints .

PHYSICS :-

- ✓Completion of theory note books {as per the syllabus completed in class }
- ✓Prepare & Record minimum five MCQ questions answers from each topic as per NCERT text.
- ✓Solve, memorize & record numerical { as per syllabus completed in class } from NCERT books in note book
- ✓Solve the questionnaire as uploaded on e care.
- ✓Completion of practical file as per the number of practical completed.
- ✓Submission of theory note books & practical file on opening day
- ✓On opening day of school, prepare for the evaluation of Unit -II : Kinematics (Chapter 3 & Chapter 4) SHCS :

PHYSICS -XI Syllabus [Theory]

Chapter–2: Units and Measurements

Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. Significant figures. Dimensions of physical quantities, dimensional analysis and its applications.

Unit II: Kinematics

Chapter–3:

Tel: 01732-231049

Website: www.shcsjagadhri.org

Email: contact@shcsjagadhri.org



Sacred Heart Convent Sr. Sec. School

Telli Road, Jagadhri, Haryana, India

Motion in a Straight Line Frame of reference, Motion in a straight line, Elementary concepts of differentiation and integration for describing motion, uniform and non- uniform motion, and instantaneous velocity, uniformly accelerated motion, velocity - time and position-time graphs. Relations for uniformly accelerated motion (graphical treatment).

Chapter-4:

Motion in a Plane Scalar and vector quantities; position and displacement vectors, general vectors and their notations; equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors, Unit vector; resolution of a vector in a plane, rectangular components,

Scalar and Vector product of vectors. Motion in a plane, cases of uniform velocity and uniform acceleration projectile motion, uniform circular motion.

Syllabus (Laboratory)

1. Vermeer Calliper
2. Screw Gauge
3. Simple Pendulum
4. Parallelogram law of vector addition

MATH:-

1. Sets: Revise : (Ref. Book –Elements) :-
Define, types of sets, Difference, Union, Intersection, laws etc. Numerical problems & practices problems on it.
2. Relations & Functions:-
Definers, Relations, Functions Types of functions, Graphs, Domain & Range, Numerical on it.
3. Permutation & Combination:-
Principle of Counting, nP_r , nC_r , properties, Practical Problems on Permutation & Combinations.
4. Probability:-

Tel: 01732-231049

Website: www.shcsjagadhri.org

Email: contact@shcsjagadhri.org



Sacred Heart Convent Sr. Sec. School

Teji Road, Jagadhri, Haryana, India

Basic Probability, Use an combination in Probability, Odds in favour, Odds against
Mutually exclusive events, Numerical on $P(A \cup B) = P(A) + P(B) - P(A \cap B)$.

ENGLISH:-

PREPARE ANY TWO TOPICS FOR THE DEBATE

1 IS IT EVER ACCEPTABLE TO LIE FOR A GOOD CAUSE?

2 SHOULD PERSONAL PRIVACY BE SACRIFICED FOR NATIONAL SECURITY?

3 SHOULD MORE FUNDING BE ALLOCATED FOR SPACE MISSIONS

4 SHOULD GOVERNMENT REGULATE WHAT PEOPLE WATCH

5 IS CULTURAL BORROWING EVER TRULY RESPECTFUL

Q2 PREPARE A BROCHURE ON "ACHIEVEMENTS OF MY SCHOOL"

Q3 REVISE THE CHAPTERS DONE IN CLASS

Q4 PREPARE POSTERS ON A4 SHEETS

A) WORLD WATER DAY

B) AIDS AWARENESS

C) BE THE CHANGE SAVE THE PLANET

D) A GREENER TOMORROW STARTS TODAY\

PHYSICAL EDUCATION:-

Practical Syllabus

Pg.1- History (for Athletics)

Pg.2- Athletics event Men& Women

- Division of Athletics Events
- Standard track (only Marking & then solve)

(It is a 400m track)

- Lane & line
- Stagger start
- Sprint races
 - *Bunch start
 - *Medium start
 - *Angulatory start

Tel: 01732-231049

Website: www.shcsjagadhri.org

Email: contact@shcsjagadhri.org



Sacred Heart Convent Sr. Sec. School

Tejli Road, Jagadhri, Haryana, India

- Running form
- Finishing of the race
- Hurdle race
- Relay race

Then a blank page (on blank page with field event)

Field Event –

1) Jumping event – Long jump

2) Throwing Event (On blank page)- Shot put

- **SAI Khelo India Test**

- BMI
- Flamings
- Plate tapping
- Sit & Reach test
- Shutter run
- 50m Speed test
- Strength test
 - * Pull ups
 - * Sit ups
 - * Push ups

MUSIC VOCAL -

Class - X1. Music Vocal Revise the taals n Raag Bhairav done in the class along with alap and tanas (written and on hand

beats as well)

* Prepare mcq, shorts notes and define done in the class.

* Prepare project file (Bharat Publication) 1.Work given in the class along with diagram of Tanpura n' Time theory of ragas

2. Short notes:-

Dhrupad

Khayal

Tarana

Tel: 01732-231049

Website: www.shcsjagadhri.org

Email: contact@shcsjagadhri.org



Sacred Heart Convent Sr. Sec. School

Tejli Road, Jagadhri, Haryana, India

3. Life sketch:-

Miyan Tansen

Pt. V. N. Bhatkhande

Abdul Karim Khan



Tel: 01732-231049

Website: www.shcsjagadhri.org

Email: contact@shcsjagadhri.org