



HOLIDAY HOMEWORK
CLASS IX
2024-25

English

Reading List

Read any of the books given below for a discussion in class after the summer break.

Holiday Reading:

1. Lessons in Chemistry - Bonnie Garmus
2. Bear Town- Fredrik Backman
3. Educated /Tara Westover
4. The Gene / Siddhartha Mukherjee
5. . Fountainhead/Ayn Rand
6. The Reckoning/John Grisham
7. The Fox/Frederick Forsyth
8. The Martian Chronicles/Ray Bradbury
9. The Conch Bearer- Chitra Banerjee Divakaruni
10. Short Stories:
 1. Insert knob A in Hole B- Isaac Asimov
 2. A Pair of Mustachios -Mulk Raj Anand
 3. Those Three Bears-Ruskin Bond
 4. The Nightingale and The Rose- Oscar Wilde
 5. Excerpt on Galileo's Struggle with the church (reading material for Einstein)
 6. Mending the Wall-Robert Frost
 7. Skillful Cartoonist and master Satirist: R.K.Laxman + another story based on the art of storytelling
 8. After Twenty Years -O. Henry
 9. Dusk-Saki
 10. Flowers for Algernon -Daniel Keyes
 11. God Sees the Truth But Waits- Leo Tolstoy
 12. The Sniper- Liam O' Flaherty

Portfolio : All The Light We Cannot See (Part 1-6)

On A3/A4 sheet



	<ul style="list-style-type: none">• Theme Quote Collage- Collect quotes/statements/significant dialogues based on the theme of the novel.• Paste photos based on the setting of the novel and write 5 facts about the setting.• Date Of submission : July 15, 2024 <p>Rubric: Content - 3 Originality - 1 Timely submission - 1</p>
<u>Mathematics</u>	<ol style="list-style-type: none">1. Investigatory Project (Group Work)2. Math Art Integration (Square Root Spiral) <p>Instructions and Guidelines will be posted in the respective Maths Google classroom</p>
<u>Social Science</u>	<p><u>History & Political Science</u></p> <p>Shared below is the link for the Holocaust Museum, it is a great learning experience. Let's prepare ourselves to study Nazism https://www.yadvashem.org/index.html</p> <p><u>Geography and Economics</u></p> <p><u>Project work on Disaster Management. Detailed guidelines along with rubrics are given in the Smartskills, which will be posted in the Google classrooms.</u></p>
<u>Science</u>	<p><u>Physics -</u> Art integrated Subject Enrichment Activity</p> <ol style="list-style-type: none">1. Students of group 3 are assigned a topic from chapter 'Sound'. Each student has to refer to their textbooks and do their individual research and make slides on the topic. Each group will be given time to collaborate in July and present it in class. Detailed instructions would be posted in their respective Physics Google Classrooms.2. Complete and revise the topics done in class on 'Motion'. <p><u>Chemistry</u></p> <p>A Student can choose to do either of the following-</p> <ol style="list-style-type: none">1. Perform experiment2. project report



3. Powerpoint presentation .

1. Experiments

Conduct simple experiments on any one the following topics

- a) States of matter- Any property
- b) Density -comparison of various substances
- c) Compressibility - Comparison in different states of matter
- d) Evaporation and boiling

Some examples are given below

Density Tower: Create a density tower. You will need a variety of liquids with different densities, such as water, vegetable oil, dish soap, and rubbing alcohol. Carefully pour the liquids into a tall glass or cylinder, one on top of the other, without mixing them. The liquids will form distinct layers, with the densest liquid at the bottom and the least dense liquid at the top.

Alka-Seltzer Volcano: This classic experiment combines baking soda (solid), citric acid (solid), and water (liquid) to create a fizzing "volcano" reaction. It demonstrates the transformation of solid to gas (carbon dioxide) and the role of a liquid (water) in facilitating the reaction.

2: Submit a Project report on any one of the following topics-

- a) To study the Relationship Between Particle Size and Diffusion Rate
- b) The Race to Disappear: Exploring Evaporation Rates

Pointers and explanation for the report is given below

- **Aim:** How does the size of particles affect their rate of diffusion in a liquid?



- **Hypothesis:** Smaller particles will diffuse faster in a liquid compared to larger particles.
- **Procedure:**
 1. Dissolve equal amounts of a colored solid (like potassium permanganate) in two beakers, one with finely crushed particles and another with larger crystals.
 2. Record the time it takes for the color to spread uniformly throughout each beaker.
 3. Repeat the experiment with different sized particles of the same solute.
- **Analysis and Conclusion:** Compare the diffusion times for the different particle sizes. Analyze the data to see if the hypothesis is supported. Explain how particle size affects diffusion based on the kinetic theory.
- **Support your findings with a graph .**

Additional Tips:

- Take pictures at regular intervals to visually document
- Handwritten report to be submitted

3. Powerpoint presentation- Prepare a presentation in Google Slides / Canva etc. on any topic related to your syllabus

Marks will be allotted for –

- i) **Relevance of matter**
- ii) **Aesthetics and presentation**
- iii) **Timely submission.**

Example- Diffusion is a fundamental process in nature with far-reaching consequences, and whether it's a boon or a bane depends on the context. Make a powerpoint presentation by inserting videos of the incidents that have happened due to diffusion of gas in India.



	<p><u>Biology -</u></p> <p>Practical file work to be written from the Smartskills.</p> <p>General Instructions:</p> <ul style="list-style-type: none">● Each experiment starts on a fresh sheet.● Cover the practical file with the brown paper.● Proper Index page is to be made.● Name, class and section of the student to be mentioned outside the Practical file.● All diagrams corresponding to written work are to be drawn on blank pages with pencil only. <p>Following practicals are to be written in the Biology practical file</p> <ol style="list-style-type: none">1. Parts of Compound Microscope.2. To prepare stained temporary mount of onion peel and to record observations and draw their labeled diagrams. (Page no.93-94)3. To prepare stained temporary mount of human cheek cells and to record observations and draw their labeled diagrams.((Page no.94-95)4. To Identify Parenchyma, Collenchyma and Sclerenchyma tissues in plants from prepared slides and draw their labeled diagrams. (Page no.95-97)5. To identify striped, smooth and cardiac muscle fibers and nerve cells in animals from prepared slides and draw their labeled diagrams. (Page no.98-100) <p>Date of submission of Practical file- 10.7.24 (Wednesday)</p>
<p><u>Hindi</u></p>	<p>एवरेस्ट: मेरी शिखर यात्रा पाठ पर आधारित परियोजना कार्य इस कार्य से संबंधित सभी निर्देश गूगल क्लासरूम पर पोस्ट किए जा चुके हैं।</p> <p>परियोजना कार्य जमा करने की अंतिम तिथि 12 जुलाई, 2024 है।</p>
<p><u>French</u></p>	<ol style="list-style-type: none">1. <u>Faites une brochure de voyage pour visiter une ville dans un pays étranger (Make a travel brochure to visit a city in a foreign country)</u><ol style="list-style-type: none">a. <u>Use an A4 sheet.</u>b. <u>Put photos or draw images</u>2. <u>Attempt the following questions from Get Ready</u><ol style="list-style-type: none">a. <u>Comprehension 1 and 2 given on page no. 12, 13</u>



	b. <u>Put the verbs in present given on page no. 74</u>
<u>German</u>	<p>Wiederhole Lektion 1 Bereitet auch auf die Prüfung FIT in DEUTSCH A1 vor! Ins Heft schreiben</p> <ul style="list-style-type: none">• Schreib die Beispiele SMS von dem Video.• Schreib das SMS - Get Ready , Lektion 1 , Übung 1
<u>Spanish</u>	<p>Write an account for the following authors :Miguel de Cervantes,Benito Pérez Galdós,García Lorca The account must include the following details : Nombre del autor/a Fecha del nacimiento Fecha del fallecimiento Lugar de nacimiento Obras famosas Logros especiales/ Premios Paste a picture of the author .</p> <p>B. México, Costa Rica, El Salvador, Panamá, Cuba Escribe sobre los países: La Capital Los monumentos importantes La comida típica Las Ciudades importantes Also paste the pictures.</p> <p>All work to be done in the Spanish Notebook</p>
<u>Sanskrit</u>	<p>लघु-कथा संकलन, संवाद लेखनम्, पत्र-लेखनम्</p> <p>छात्र अपनी नोटबुक में, गूगल क्लासरूम में पहले से दिए गए अभ्यास प्रश्न पत्रों पर निर्दिष्ट वाक्य संस्कृत भाषा में लिखेंगे। छात्रों की सहायता हेतु कक्षा में इस विषय पर पहले ही चर्चा की जाएगी। सभी छात्रों को 5- 5 संस्कृत लघु कथाओं का संकलन करना होगा। छात्र रंगीन पृष्ठों पर इन्हें लिख सकते हैं या चिपका सकते हैं। यह प्रतियोगिता नहीं है।</p> <p>मूल्यांकन का आधार निम्नलिखित होगा -</p> <ol style="list-style-type: none">1. प्रासंगिकता/ अनुसंधान - 1 अंक2. सज्जा - 1 अंक3. निर्धारित समय सीमा का पालन - 1 अंक4. समग्र प्रभाव - 2 अंक



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<u>H.Sc</u>	<ul style="list-style-type: none">● Identification and collection of samples of ten herbs/spices/condiments available in the kitchen for treating common ailments. Stick the samples in your file and write the benefits of these herbs● List foods eaten on any one day and classifying them into Energy giving, Protective and body building foods.● Make your own recipe book with at least 5 recipes of your choice. Stick pictures and make the book attractive.
<u>IT</u>	<ul style="list-style-type: none">● Students will be required to make a 2 page brochure on “Andaman & Nicobar Islands” in Canva. Take a topic such as type of islands, food, places to visit etc.● This has to be downloaded as a PDF and turned in the GC● Date Of submission : July 15, 2024 <p>Rubric: Content - 2 Originality & Creativity- 2 Timely submission - 1</p>
<u>CA</u>	<p>Students will be required to read about the '<u>Types of Hardware of a Computer System</u>' and place the data on a Chart paper.</p> <ul style="list-style-type: none">● The data should consist of 5-Input devices, 5-Output devices and 5-Storage devices. Write 3-4 sentences describing each device.● There should be a picture of each device. This picture can be hand drawn or an appropriate sized printout can be placed on the chart.● Remember to put on the chart a border, chart-heading and your name written in the top/bottom corner of the chart.● Make the chart attractive.● Submission date: 15th July 2024
<u>Painting</u>	<p>Practical: Draw 1 still life, 1 vegetable bowl, 1 fruit bowl, 1 Potted plant Learn and Revise chapter 1 and 2</p>
<u>Visual art</u>	3 different types of colourful Indian Folk art on A3 size paper.
<u>Vocal music Western</u>	<u>listen all types of music and try to attend any music concert.</u>



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<u>music</u>	
<u>Yoga/PE</u>	
<u>Theatre</u>	Take some time to sit with your parents or family, ask them what they used to do during their summer breaks, and try doing those activities with them.