

SUMMER ASSIGNMENT
FOR
GRADE IX

Guidelines for Students

1. General Instructions:

- All revision work must be done **neatly on loose sheets** and will be **submitted after the vacations**.
- The assignments cover **revision of topics from Term I**.
- Students are advised to **read lessons thoroughly from the textbooks** before attempting the assignments.

2. Subject-specific Guidelines:

- **Mathematics & Science:** Refer to the **textbooks first**, then check the **provided reference links** before answering the questions.
- **Science (especially Biology):** Practice and revise **important diagrams** from the lessons.
- **English:** Complete the **Bravia worksheets** after a **careful reading of the lessons from the text book**.
- **Social Studies:** Along with textbook reading, give special attention to **map work practice**.
- **Urdu/ Hindi :** Students are advised to **read their lessons carefully** and **practice the difficult words every day** to improve their reading and vocabulary skills.

“Success is the sum of small efforts repeated day in and day out”.

Mathematics

- **Make sure to draw neat and clear diagrams/ figures wherever required.**
1. Show that lines which are parallel to the same line are parallel to each other.
 2. Prove that the sides opposite to equal angles of a triangle are equal.
 3. If in two right triangles the hypotenuse and one side of one triangle are equal to the hypotenuse and one side of the other triangle, then the two triangles are congruent.
 4. If $AB \parallel CD$ and $CD \parallel EF$, and $EA \perp AB$. Given $\angle BEF = 55^\circ$, find the values of x , y , and z .
 5. Prove that two triangles are congruent if two angles and the included side of one triangle are equal to two angles and the included side of the other triangle.
 6. Line segment AB is parallel to line segment CD . O is the midpoint of AD . Show that:
 - i) $\triangle AOB \cong \triangle DOC$
 - ii) O is also the midpoint of BC
 7. Prove that angles opposite to equal sides of an isosceles triangle are equal.
 8. In an isosceles triangle ABC with $AB = AC$, D and E are points on BC such that $BE = CD$. Show that $AD = AE$.
 9. AB is a line segment and line L is its perpendicular bisector. If a point P lies on L , show that P is equidistant from A and B .
 10. Prove: If the three sides of one triangle are equal to the three sides of another triangle, then the two triangles are congruent.

If you have any doubts regarding triangles, a link has been provided along with the assignment to help you understand the concepts and clear your doubts.

Reference Link:

<https://youtu.be/aOnYUzsCZdQ?si=OMxY7s9KpfpEGvTU>

Science

- **Revise the lessons studied in the class**
- **Draw neat and clear diagrams wherever required**

Chemistry

1. Sugar gets dissolved in water to give uniform homogeneous solution without increasing the level of the water. Which characteristic property does this statement explain?
2. Why is solid carbon dioxide also called dry ice?
3. Differentiate between emulsion, sol and foam.
4. A solution of 550 g is prepared by dissolving 110 g of copper sulphate. Calculate the concentration of the solution.
5. How is fog different from smog?

Physics

1. A person is pushing a wall but the wall does not move. Is he doing any work? Justify your answer using Newton's laws.
2. Why do passengers tend to fall forward when a speeding bus suddenly stops?
3. A stone and a feather are dropped from the same height in a vacuum. Which one will reach the ground first and why?
4. Why does a gun recoil when a bullet is fired?
5. Draw a **velocity-time** graph for:
 - (a) Uniform acceleration
 - (b) Retardation
 - (c) Zero acceleration
6. If Earth suddenly stopped rotating, what would happen to objects at the equator? Explain using inertia.

Biology

1. Why is mitochondria called power house of the cell?
2. Draw well labelled diagram of structure of the cell.
3. What are the key differences between mitosis and meiosis?
4. If there are no ribosomes. What would happen to cell?
5. What are the stages of plasmolysis?
6. Write a note on cellular housekeepers of cell

Reference links:

<https://www.youtube.com/watch?v=vawU6R8MaO0>
<https://www.youtube.com/watch?v=K7X2m-E-lq0>
<https://youtu.be/A-Hpp9xUbiM?si=e08EGOCir5-Ncxth>
https://youtu.be/hir21E_M-3Y?si=SQgBuC4vgSiyEwn1

English:

Read the following lessons from the text and complete the exercise given in Bravia Worksheet file.

Book: Beehive

Prose

- | | | |
|-------------------------------|----------------|-----------------|
| 1. The Little Girl : | Worksheet 101: | Pg. No. 267-268 |
| 2. A Truly Beautiful Mind : | Worksheet 103: | Pg. No. 271-272 |
| 3. The Snake and the Mirror : | Worksheet 105: | Pg. No. 275-277 |
| 4. Reach for the Top : | Worksheet 111: | Pg. No. 287-288 |

Poems

- | | |
|-------------------------------|------------------|
| 5. Wind | Pg. No. 309- 310 |
| 6. Rain on the Roof | Pg. No. 311-312 |
| 7. The Lake Isle of Innisfree | Pg. No. 313- 314 |

Book: Moments

- | | | |
|------------------------|----------------|-----------------|
| 8. Adventures of Toto: | Worksheet 129: | Pg. No. 331-332 |
| 9. The Happy Prince | Worksheet 134 | Pg No. 343- 344 |

Grammar

- | | |
|-----------------|------------|
| 10. Letter | Pg. No. 75 |
| 11. Diary Entry | Pg.No. 109 |

Social Studies

- **Revise the lessons studied in the class**

1. Draw a well labeled Map of Russian Empire (Page no. 30 of NCERT History book.)

OR

France - French Revolution (Page no. 9 of NCERT History book.)

2. On an Outline Map of India label the below given **Physical features of India**

i. Three parallel ranges of The Himalayan Mountains

1. **The Himadri:** the Greater or the Inner Himalayas.

2. **The Himachal:** Himachal or the lesser Himalayas

3. **The Shiwaliks:** the outermost range

ii. Mountain Ranges: The Karakoram, the Vindhya Range, the Aravali, the Cardamon hills.

iii. The Indian desert, the western Ghats, the Lakshwdeep Islands

iv. Mountain Peaks: K2, KanchenJunga, Nanga Parbat, and the Anai Mudi

Computer Science

- The following work can be **done on the computer**, and **printouts should be submitted** when school reopens after the summer holidays.
- Students will choose **one topic from the given list** and create a **well-formatted document** using **LibreOffice Writer**. Make sure to use different **editing and formatting tools** (like bold, underline, font style, alignment, etc.) to make your work neat and attractive!

1. Choose one topic from the list below:

- My dream Vacation.
- Importance of Healthy Eating.
- A Day without Electricity

2. Write a **200-300** words passage in Libre Office Writer on the selected topic.

3. Apply the following editing and Formatting features:

- Font formatting: Change font type, size. colour.
- Text Alignment : use left, center ,right and justified.
- Line spacing: set to 1,5 to 2.0
- Using Header and Footer.
- Using Bullets and Numbering.
- Insert: A picture related to the selected topic can be inserted from (local files or Internet)
- A page border.
- Using find and replace options for any word.

4. Save the document by your Name.LibreOffice.Doc

5.The below given link is related to the Table and Table contents in Libre Office Writer.

Reference Link:

https://youtu.be/CBTjN8_t7co?si=Ss2QpWyMjIZFpBtQ

ग्रीष्मकालीन अवकाश कार्य (समर वेकेशन असाइनमेंट)

विषय - हिन्दी (Grade 9)

अवधि - 15 दिन

भाग - लेखन कार्य

निर्देश:

- प्रत्येक लेखन कार्य को स्वच्छ और सुंदर लेख में अपनी हिंदी की नोटबुक में लिखें।
- किसी एक विषय पर चित्र भी बना सकते हैं) वैकल्पिक।
- 15दिन में कम से कम यह 8 कार्य पूरे अवश्य करें।

लेखन कार्य:

□ दिन 1 - अनौपचारिक पत्र लेखन/Informal letter

विषय: अपने मित्र को गर्मी की छुट्टियों की योजनाओं के बारे में पत्र लिखिए।

□ दिन 2 - अनुच्छेद लेखन/Paragraph writing

विषय: पर्यावरण संरक्षण का महत्व (लगभग 120 शब्दों में)

□ दिन 3 - संवाद लेखन/Dialogue writing

विषय: एक छात्र और पुस्तक विक्रेता के बीच संवाद - किताबें खरीदने के संबंध में।

□ दिन 4 - डायरी लेखन/Diary Writing

विषय: आज का मेरा दिन (छुट्टियों का पहला दिन)

□ दिन 5 - चित्र लेखन/Picture Discription(अपनी मर्जी से)

विषय: केए भी चित्र देख के उस पर 50_60 शब्द लिखिए।

□ दिन 6 - कहानी लेखन/Story writing(संकेत शब्दों के आधार पर)

संकेत: बारिश, अकेलापन, खोया बटुआ, ईमानदारी

□ दिन 7 - विज्ञापन लेखन/Advertisement Writing

विषय: एक टूशन क्लास के लिए आकर्षक विज्ञापन तैयार कीजिए।

□ दिन 8 - निबंध लेखन/Eassy Wtiting

विषय: मेरा प्रिय त्यौहार (150 शब्दों में)

□ दिन 9- अनुभव लेखन/Experience Writing

विषय: पिछली गर्मी की छुट्टियों का एक अविस्मरणीय अनुभव

جی ڈی گوینکھ پبلک سکول سرینگر

گرمائی عملی کام برائے سال (۲۰۲۵)

جماعت نویں

۱۔ اپنے پسندیدہ شاعر کے متعلق مختصر معلومات بیان کرنے کے ساتھ اس کی تصویر بھی بنائیں۔

۲۔ مندرجہ ذیل کی الگ الگ فہرست بنائیں۔

دس واحد جمع لکھیے

دس مونث مذکر لکھیے

دس ضد اضداد لکھیے

دس محاورے لکھیے

۳۔ جنگ اور اس کے نقصانات پر 150 الفاظ پر مشتمل ایک مضمون لکھیے۔