



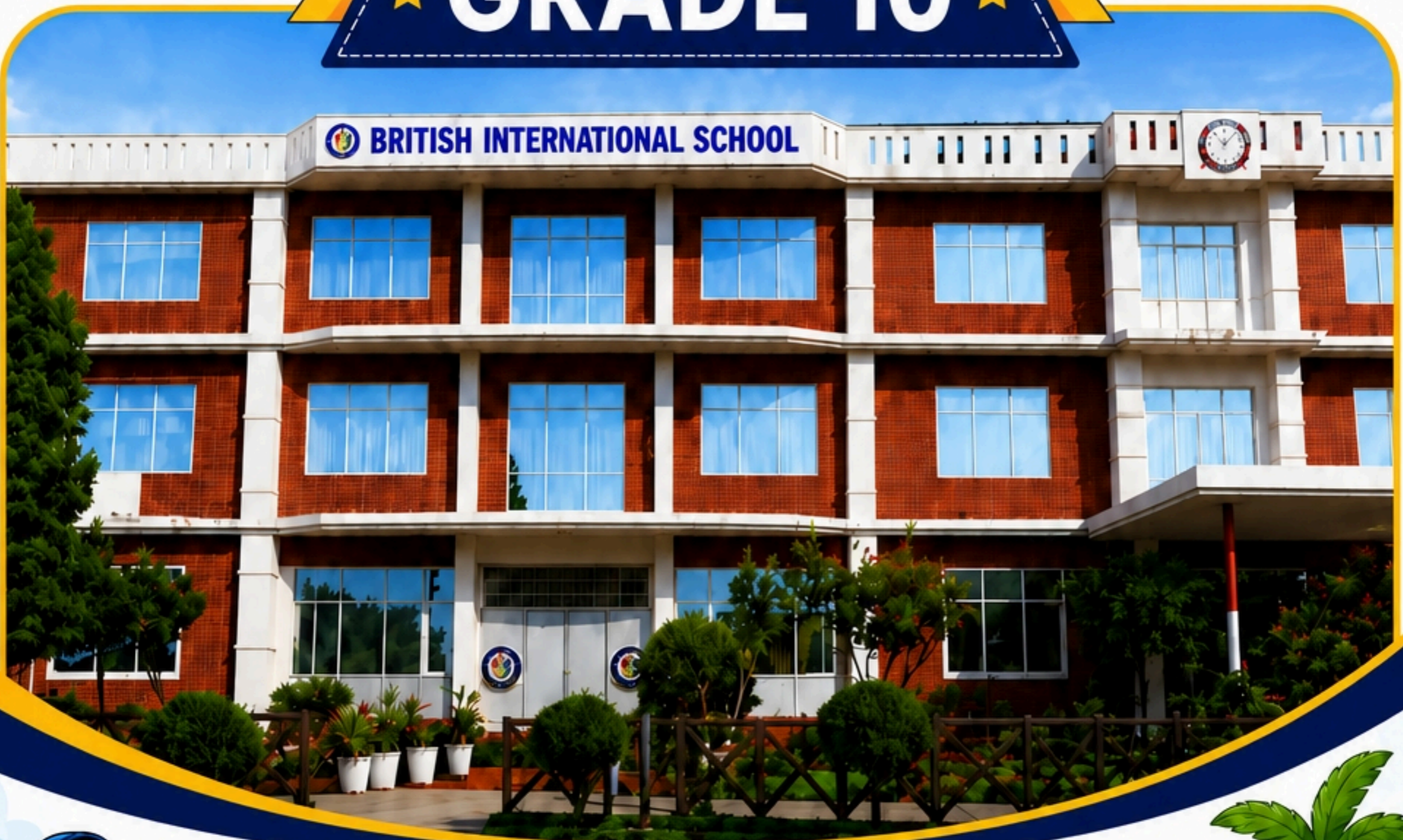
TM



BRITISH INTERNATIONAL SCHOOL  
JAMMU

# HOLIDAY HOMEWORK

★ GRADE 10 ★



BRITISH INTERNATIONAL SCHOOL  
— JAMMU —

★ Learn • Explore • Grow ★





# BRITISH INTERNATIONAL SCHOOL, JAMMU

## HOLIDAY HOMEWORK

GRADE X | SESSION 2026-27

Dear Parents & students,

*Happy greetings!*

- As summer vacation approaches, bringing with it sunshine and a well-deserved break, we're excited to share the holiday homework plans with you. This time away from school is not just a pause; it's an opportunity. A chance for children to dive deeper into their curiosities, strengthen what they've learned, and discover the joy of learning beyond the classroom.
- We believe that learning never stops. While the holiday homework is designed to reinforce key concepts and encourage independent thinking, it's equally important to embrace the spirit of summer: rest, relaxation, and quality time with loved ones. Encourage your ward to read for pleasure, explore the outdoors, engage in creative activities, and, most importantly, make lasting memories with family.
- We sincerely request parents to guide and motivate their ward in completing the assigned work neatly and creatively. Your encouragement and involvement play a vital role in shaping confident, responsible and joyful learners.
- May this vacation bring happiness, positivity, good health and enriching experiences to your family.

*Wishing you and your family a joyful, enriching,  
and restful summer vacation!*

Warm regards  
**Ms. RoopinderKour**, Principal,  
British International School, Jammu

★ ENJOY • LEARN • GROW ★





# BRITISH INTERNATIONAL SCHOOL, JAMMU HOLIDAY HOMEWORK



## SUBJECT – SCIENCE

★ SESSION 2026–2027 ★

GRADE  
**X**

### PHYSICS

- A.** Make a working model/experiment demonstrating the phenomenon associated with light (reflection/refraction/scattering/dispersion etc.)
- B.** Click at least 3 real and natural photographs showing the 3 different phenomena of Light. Paste its printouts (preferably coloured)/ photograph in your Physics practical notebook and explain the Physics phenomenon involved in each photograph.
- C.** Make Activity file:
- Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result.
  - Tracing the path of the rays of light through a glass prism.
- D.** Revise the Chapter Light.



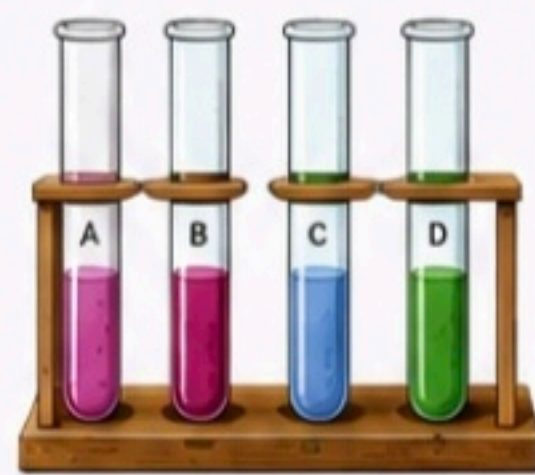
### CHEMISTRY

**1.** Prepare a project report on following topics:

- (i) Prepare a natural indicator using beetroot and use it to test the acidic, basic or neutral nature of given substances:
- Tap Water • Milk • Lemon juice • Carbonated drink
  - Baking soda solution • Vinegar • Tomato • Orange

**STEPS TO PREPARE:**

- Crush beetroot in a mortar.
- Add sufficient water to obtain the extract.
- Filter the extract by the procedure learnt by you in earlier classes.
- Collect the filtrate to test the substances given.
- Arrange four test tubes in a test tube stand and label them as A, B, C and D. Pour 2 mL each of lemon juice solution, soda-water, vinegar and baking soda solution etc. in them respectively.
- Put 2–3 drops of the beetroot extract in each test tube and note the colour change if any.
- Prepare a table and write your observation.



- (ii) Write a detail report on following two chemicals (Common name, Chemical Name, Chemical formula, Preparation and Uses)
- Baking Soda
  - Washing soda



**2.** Write the following practical's in your practical file:

- (i) Performing and observing the following reactions and classify the reactions:
- (a) Combination reaction • (b) Decomposition reaction
  - (c) Displacement reaction • (d) Double Displacement reaction
- (ii) Finding the pH of the following samples by using pH paper/universal indicator.



**3.** Read Chapter 1 (Chemical Reactions and Equations) upto double displacement reaction and solve the worksheet given in class on chemistry notebook.

### BIOLOGY

AIL (ART INTEGRATED ACTIVITY) SESSION 2026–2027

- AIM:**  
To prepare an investigatory project report on the given topic.
- GENERAL INSTRUCTIONS:**
- The project report should be prepared according to the topics allotted.
  - Report should be handwritten on A4 size interleaf sheets.
  - Use only blue pen and pencil while writing the report, however you can incorporate your own creativity as well.
  - Marks will be allotted according to the content and creativity of the report.
  - Ensure that the content is upto date.

	TOPIC	ROLL NUMBER
1	1. Need for the Conservation of Natural resources (forests, wildlife)	R.NO. 1 to R.NO. 6
2	2. Sustainable management and development	R.NO. 7 – R.NO. 12
3	3. Biodiversity of Gujarat & threats to the state's characteristics flora & fauna	R.NO. 13 to R.NO. 18
4	4. Understanding the value of biodegradable & non-biodegradable resources by benchmarking their social & environmental values	R.NO. 19 – R.NO. 24
5	5. Natural resource management model in GUJRAT	R.NO. 25 – R.NO. 30
6	6. Detailed case study on Arabari Forest Range & Gir National park	R.NO. 30–39

### NOTE:

- While making the project please ensure that a special reference is given to the state of GUJRAT.
- Revise all the topics done in the class, for your assessment tests.



### BIOLOGY PRACTICALS

**AIM:**  
To prepare the practical file of biology.

- GENERAL INSTRUCTIONS:**
- Write the given practical's on your practical file as per the SCIENCE CBSE SYLLABUS 2026–2027.
  - Make sure you follow the rules for making a practical file (as discussed in the class).





# HOLIDAY HOMEWORK

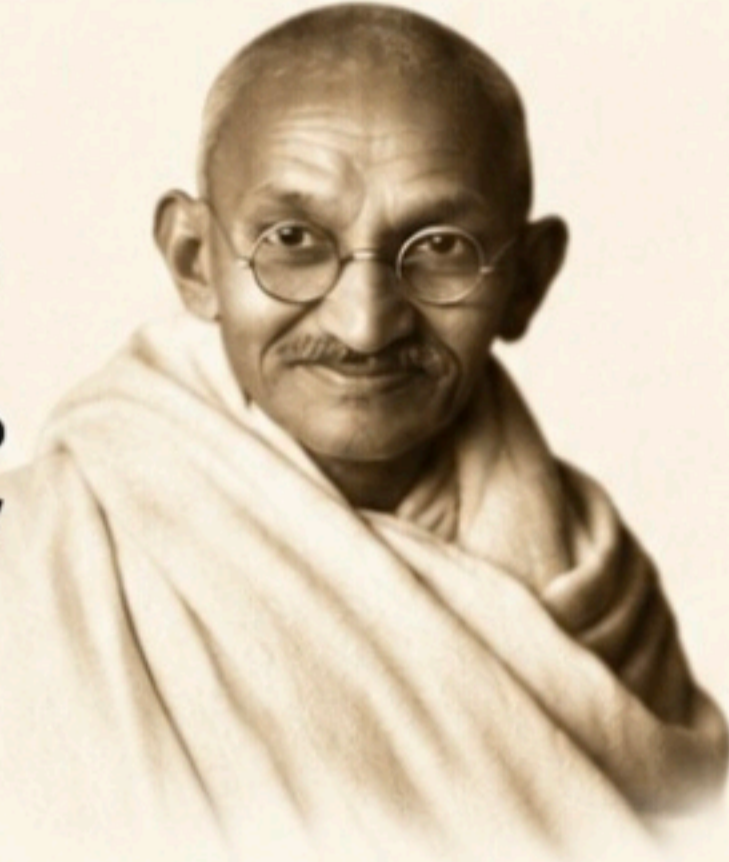


## SUBJECT – S.ST

### HISTORY

★ Contributions made by **Mahatma Gandhi** in the Nationalist Movements with special reference to the methods adopted by him. To make it more effective, add pictures as well.

(On A4 Sheet)



#### METHODS ADOPTED BY GANDHIJI

- Satyagraha
- Non-Violence
- Swadeshi
- Civil Disobedience
- Constructive Programme



### CIVICS

★ On an A4 sheet, write about the regional parties of **Jammu & Kashmir** (Union Territory) and **Gujarat (State)**. Mention at least 4 parties each, along with the pictures.

#### JAMMU & KASHMIR (U.T.)

1. National Conference



2. People's Democratic Party



3. Apni Party



4. Jammu & Kashmir Peoples Conference



#### GUJARAT (STATE)

1. Bharatiya Janata Party



2. Indian National Congress



3. Aam Aadmi Party



4. Gujarat Parivartan Party



### GEOGRAPHY

#### THEORY BASED WORK:

★ Prepare a report on the factors responsible for **Land degradation**. In order to make it eye-catching, add some pictures also.



Deforestation



Soil Erosion



Overgrazing



Unsustainable Agricultural Practices



Industrialization & Urbanization

### SUBJECT – ECONOMICS

★ Prepare a file on the topic **"Current growth strategies of India"**.



Economic Growth



Make in India



Digital India



Infrastructure Development



Sustainable Development



# Holiday Homework

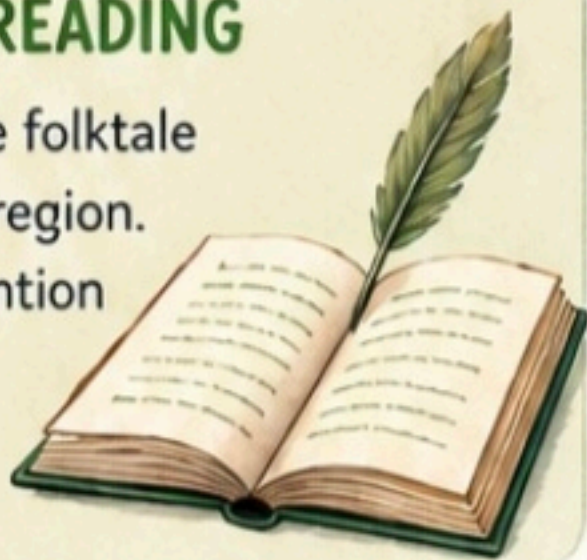
SUBJECT – ENGLISH

Grade X

TOPIC – CULTURAL DIVERSITY –  
JAMMU AND KASHMIR and GUJARAT

## 1 LITERATURE AND READING

a) Reading – Read any one folktale or short story from each region. Write a summary and mention what values or lessons did you learn.



## 2 CREATIVE WRITING

a) Diary Entry – (200 words)

Imagine that you visited either of the places J&K or Gujarat during your Summer break. Write a diary entry describing your experience, e.g. their food, culture, people and life and what fascinated you the most.



## 3 TRAVEL BROCHURE (200 words)

Create a travel brochure encouraging the tourists to visit Gujarat/ Jammu and Kashmir. Highlight major tourist attractions, festivals and culture.



## PROJECT WORK

Prepare a short presentation written/digital.

Draw a comparison between the festivals of J&K and Gujarat.

Include pictures, drawings and short descriptions.

### JAMMU & KASHMIR



Kashmiri  
Dogri  
Urdu  
Hindi



COSTUMES



### GUJARAT



Gujarati  
Hindi  
Kutchi  
English



## VOCABULARY ENHANCEMENT

Make a list of 10 local words each from J&K and Gujarat.

### JAMMU & KASHMIR

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_



different cultures,  
one beautiful  
India!

### GUJARAT

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_



# ग्रीष्मकालीन अवकाश कार्य

विषय: हिंदी

कक्षा: दसवीं

## लेखन कौशल:

★ कोई भी दो अपठित गद्यांश बहु विकल्पी प्रश्न उत्तर के साथ अपने विद्यालय की उत्तर पुस्तिका पर लिखिए।

## कवितावाचन:

★ “वीररस” से संबंधित कोई पाँच कविताएँ लय एवं आरोह-अवरोह के साथ कंठस्थ करें।

## पुनरावृत्ति:

★ कक्षा में कराया गया सारा कार्य आत्मसात करें।

## वाचन कौशल:

★ हरिहर काका की कहानी पढ़कर उससे संबंधित प्रश्न उत्तर अपनी उत्तर पुस्तिका पर लिखें।

## कला एकीकृत गतिविधि (AIL ACTIVITY)

क्रमांक	समूह	कार्य
1	समूह-1 अनुक्रमांक (1-9)	जम्मू कश्मीर और गुजरात में पहने जाने वाली पोशाकों की विस्तृत जानकारी चित्रों सहित देते हुए एलबम बनाएँ।
2	समूह-2 अनुक्रमांक (10-18)	जम्मू व कश्मीर और गुजरात की लोककथा को चित्रों सहित लिखिए।
3	समूह-3 अनुक्रमांक (19-27)	जम्मू व कश्मीर और गुजरात के लोकसंगीत को चित्रों सहित बताते हुए एक पत्रिका तैयार कीजिए।
4	समूह-4 अनुक्रमांक (28-39)	जम्मू व कश्मीर और गुजरात के ऐतिहासिक स्मारकों की चित्रों सहित विस्तृत जानकारी देते हुए एक कोलाज बनाएँ।



# BRITISH INTERNATIONAL SCHOOL, JAMMU

## HOLIDAY HOMEWORK

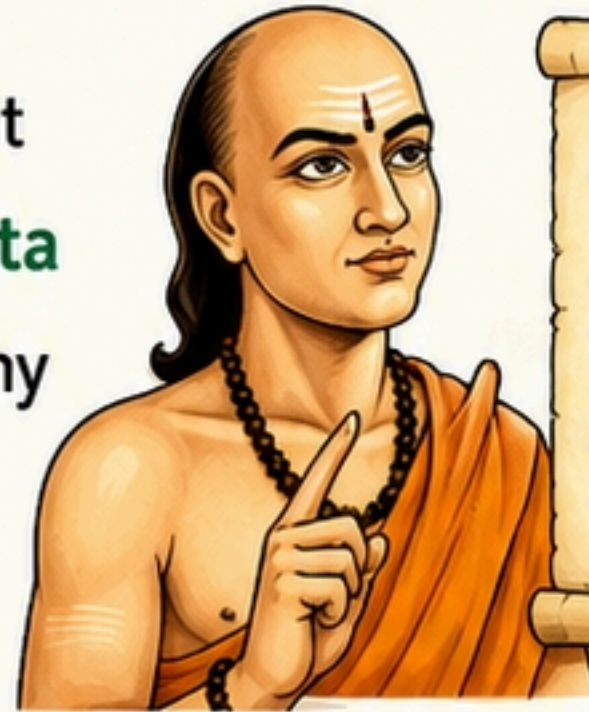


★ GRADE X ★

SUBJECT – MATHS

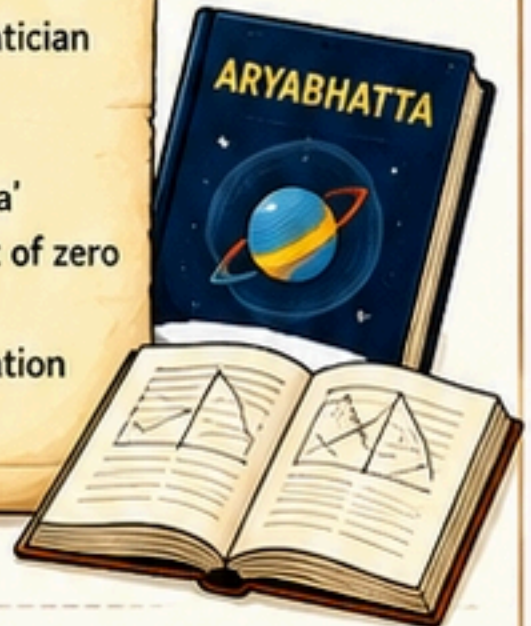


1 Collect relevant information about **Indian Maths wizard Aryabhatta** and design his two-page biography alongwith some pictures.



**ARYABHATTA**

- Great Indian Mathematician and Astronomer
- Born in 476 AD
- Author of 'Aryabhatiya'
- Pioneered the concept of zero
- Calculated value of  $\pi$
- Explained Earth's rotation and eclipses



2 What is a **Polynomial** and mention the applications of Polynomial in real life situation (Any three).

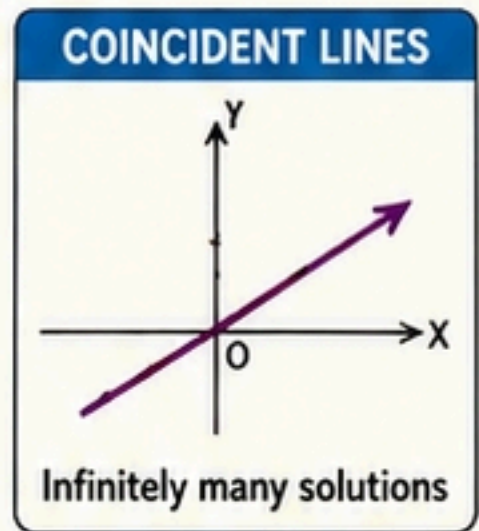
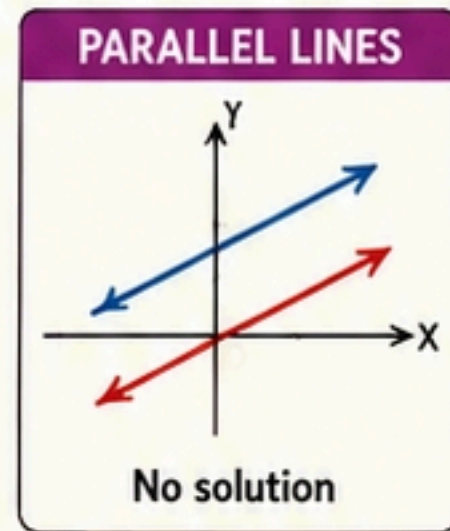
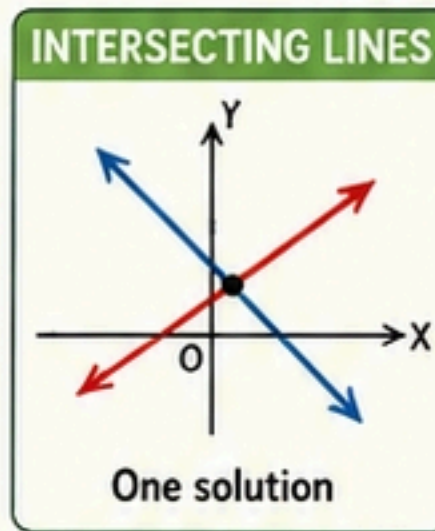
$$P(x) = a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0$$

where  $a_n \neq 0$



3 Represent the pair of linear equation in two variables graphically in the form of three cases i.e. when lines are **intersecting**, **parallel** and **coincident**.

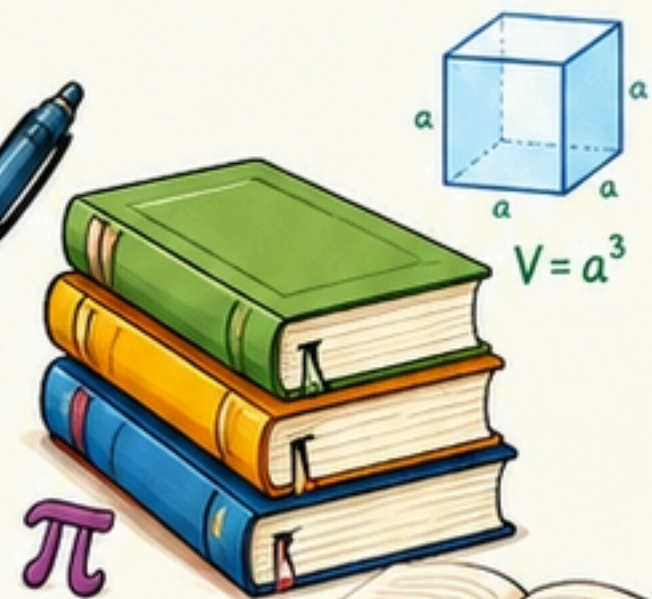
### THREE CASES



4 Solve the worksheets provided to you in your **Maths Fair Notebook**.

1.  $x + y = 7$   
 $2x - y = 3$   
 $x = ?, y = ?$

2.  $x^2 - 5x + 6 = 0$   
 $(x - 2)(x - 3) = 0$   
 $x = 2, 3$



★ Think • Solve • Succeed ★



# HOLIDAY HOMEWORK

## GRADE X

### SUBJECT – COMPUTER APPLICATIONS

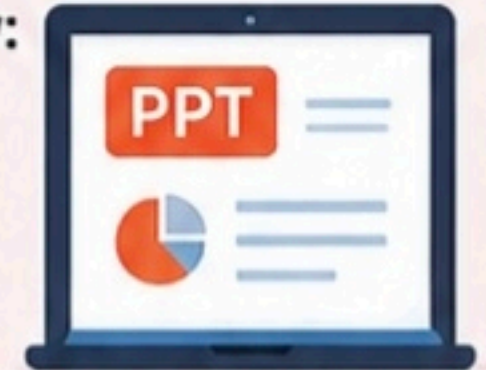


#### PROJECT ACTIVITY 1

(Roll Numbers. 1 - 19)

Prepare a PowerPoint Presentation on the following topics given below:

- i) Cyber Safety
- ii) Netiquettes
- iii) Plagiarism & Digital Property Rights



#### PROJECT ACTIVITY 2

(Roll Numbers. 20 - 38)

Make a file assignment on “INTERNET BASICS” (use A4 Sheet)

Topics included are:

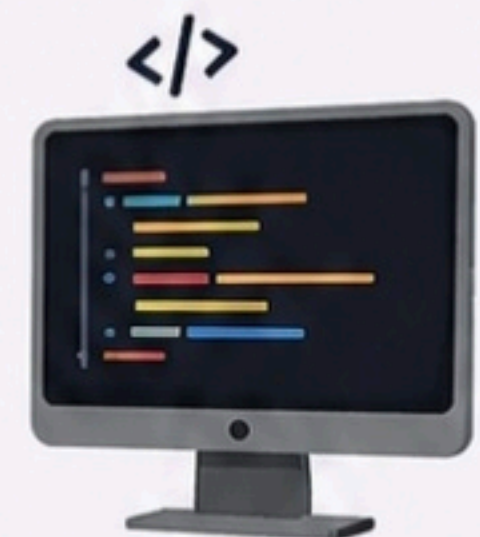
- |  |                                     |
|--|-------------------------------------|
| i) Internet and its components           | x) Web Address                      |
| ii) WWW                                  | xi) HTML                            |
| iii) Difference between WWW and Internet | xii) Blogs                          |
| iv) Basic Internet terminology           | xiii) Internet Protocols            |
| v) Website                               | xiv) Newsgroup                      |
| vi) Web Server                           | xv) E-mail address                  |
| vii) Web Page                            | xvi) FTP Protocols                  |
| viii) Website                            | xvii) Other File Transfer Protocols |
| ix) Web Browser                          | xviii) Downloading and Uploading    |



#### HTML ACTIVITY

Write the HTML code to design the above-shown web page considering the specifications as given below:

- 1 Background color of the page should be yellow.
- 2 Heading “Types of Artificial Intelligence” should be the first level of heading.
- 3 Formatting style for the paragraph as:
  - Font Size: 5
  - Font Name: Times New Roman
  - Color: Red



#### NOTE:

- ★ Each student will give a demo on MS WORD after the vacations. (*Internal Assessment*)
- ★ Complete the question/answers of:
  - CH - 2
  - CH – INTERNET BASICS
  - CH – INTERNET SERVICESwith proper index and page number in IT Fair notebooks.



# ہالی ڈے ہوم ورک

کلاس دہم

مضمون : اردو  
(Grade X)

## 1. مطالعہ

درج ذیل نظمیوں اور اسباق غور سے پڑھیں اور معنوی جواب نوٹس بک میں لکھیں۔

- ☆ سبق نمبر 1 : اکی چراغ
- ☆ سبق نمبر 2 : نبی سلام
- ☆ سبق نمبر 3 : علامہ اقبال (حیات خدمات)
- ☆ نظم: نظم: لطف اندوز (علامہ اقبال)
- ☆ نظم: نظم: ہم دیکھیں گے (فیض احمد فیض)



## 2. تحریری کام

درج ذیل عنوانات پر مضامین تحریر کریں۔  
(تقریباً 200 الفاظ)

- ☆ میرا پسندیدہ موسم
- ☆ محنت کی اہمیت
- ☆ علم کی روشنی



## 3. گرامر

درج ذیل گرامر کے اسباق حل کریں اور نوٹس بنائیں۔

- ☆ اسم، ضمیر، صفت، فعل کی تعریف اور مثالیں
- ☆ متضاد اور مترادف الفاظ (20, 20 الفاظ)
- ☆ محاورے اور ان کے معنی (10 محاورے)



## 4. تخلیقی سرگرمی

خوبصورت خط خطاظی میں کسی ایک متشبہ نظم یا شعر کو  
چارٹ پیپر پر لکھیں اور سجائیں۔



## نوٹ:

- ☆ ہر طالب علم چھٹیوں کے بعد اردو میں ایک مختصر تقریر/پیشکش دے گا۔ (داخلی چانچ)
- ☆ تمام کام صاف ستھرے انداز میں، مناسب صفحہ بندی اور ترتیب کے ساتھ پیش کریں۔



# Happy Holidays!

As we close this Holiday Homework, let's take a moment to reflect...



I will explore new ideas and discover more about the world.



I will improve my skills and learn with curiosity and creativity.



I will spend quality time with my family and cherish every moment.



I will stay disciplined, take responsibility and give my best.



I will be ready to come back with more knowledge, confidence and smiles.

“ Learning is a **journey**, not a race. Keep growing, keep **shining!** ”

Wishing you a joyful break and a bright tomorrow!



Today's efforts will create tomorrow's success.



Grateful  
Thankful  
Blessed

