

## Tender Heart High School, Sector 33-B, Chd.

### **HOLIDAY HOMEWORK (2023-24) Class III**

- English-**
1. Write 5 sentences on “Myself”. Write about what you like, dislike, your friends, family etc.
  2. Make a Birthday Card for your father/mother. Write few lines expressing your feelings for father / mother inside the card.
  3. Write 5 pages in good Handwriting.
- Hindi**
1. आ से ऋ की मात्रा के पाँच – पाँच शब्द लिखो।
  2. भारत के राष्ट्रीय पक्षी (मोर) और राष्ट्रीय जानवर (बाघ) के बारे में पाँच – पाँच पंक्तियाँ लिखो।
  3. अपनी पाठ्य पुस्तक में से 5 दिन तक प्रतिदिन सुलेख लिखो।
- Maths:**
1. Count and write(in figures and in words) the numbers of doors, windows, fans, tables, vehicles in your house.
  2. List 5 things each in your house which have the following geometrical shapes:-  
(a) Square (b) Circle (c) Rectangle
  3. Write birthdates of your Father, Mother, Sister, Brother and your Grand Parents in number and in words. Also write their place of birth.
- Science:**
1. Draw/Collect the pictures of – (i) 5 sense organs (ii) 5 pets/ domestic animals, and write five sentences about how each of them helps us?
  2. ‘The Sharing Bug’. Sharing is the most beautiful thing. Do at least one good deed everyday! Keep track of how you are doing day by day. Here are some ideas for kind acts:
    - a. Empty the waste basket
    - b. Help your grandfather shine his shoes
    - c. Tell your mother you love her.
    - d. Smile at someone you don’t know
    - e. Share your things with other children etc.
    - f. Donate some of your old toys to street children.
- You can think of more things. Lastly write down in 50 words how you feel.
- Social Studies**
1. What work they do -Mason, Carpenter, Cobbler, Milkman, Postman? Write 5 sentences on each about how they help us.
  2. Make a list of 5 different means of transport like road transport, railways and paste their pictures.
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## Tender Heart High School, Sector 33-B, Chd.

### **HOLIDAY HOMEWORK (2023-24) Class IV**

**English: 1.** Reading is fun. One is never alone when one is with books. Sitting in your room with your book you could go off in your imagination to far away places, meet all kinds of people, animals, birds and even fairies. What fun! Reading will teach you many new words. You will write better and speak well. Read books to discover lots of new things!! Read atleast five story books.

(Suggested list- (a) Walt Disney Series (b) Panchtantra Series (c) Lady Bird Series etc.) Write the following information of any one book after you have read the book - (a) Name of the book (b) Name the main characters of any five stories in the book. (c) Which character did you like the best in the book? (d) Choose and write five proper nouns and five common nouns from the book. (e) Write 20 new words you learnt from the book with their meanings. Also write one synonym and antonym (if any) against it.

2. Draw / paste picture of any one outdoor game you like and write five lines about the game.

**Hindi: 1.** प्रकृति में आप जो चीजें देखते हैं (जैसे – फूल, बादल, पेड़, धरती, पहाड़, वर्षा आदि) उन में से पाँच चीजों के बारे में पाँच-पाँच पंक्तियाँ लिखिए।

2. '18 जून 2023' पूरे विश्व में पितृ दिवस (Father's Day) के रूप में मनाया जाएगा। आप भी अपने माता/पिता के प्रति अपने भाव व्यक्त करते हुए 10 पंक्तियाँ लिखिए।

**Maths** 1. Daily do 2 sums each of subtraction and addition for 10 days.

2. Learn and write tables from 2-15 in your notebook.

3. Given below are some of the 3-dimensional shapes. Observe any 2 real life objects at your home resembling these shapes and draw them.

	<b>3-D Shapes</b>	<b>Objects</b>	<b>Pictures</b>
1.	Cube(eg. Rubik's cube)		
2.	Cuboid (eg Microwave)		
3.	Sphere (eg Ball)		
4.	Cylinder ( eg LPG cylinder)		
5.	Cone (eg. Softy)		

**Science:1.** Collect leaves of 7 different kinds (shape or size) and paste them in your note book. Identify the plants and write their common names.

2. Write two things each that sun, soil, water, trees and animals give us. Paste their pictures also.

3. Make some bird feed with some dal and grains and place it in your garden in a bowl to feed the birds. Keep a bowl of fresh water every day near the bird feed. What do you observe? Write your experience in 5 lines.

### **History/Civics:**

1. Draw the Indian National Flag and write the relevance of each colour in the Indian National Flag. Also write the significance of the Ashoka Chakra at the centre of the National Flag.

2. Learn and write the National Anthem in the note book. Who wrote the National Anthem? WHEN and WHERE was the National Anthem first sung?

### **Geography**

How many states do we have in India? Write the names of the States of India and their Capital City. On the political map of India mark and depict the various states of India along with their Capital City.

## Tender Heart High School, Sector 33-B, Chd.

### HOLIDAY HOMEWORK (2023-24) Class V

#### English:

- (1) This summer, you wish to invite your friend to visit Chandigarh. Prepare a list of any five places which you would like to show him/her in Chandigarh and write few lines to describe each place.
- (2) List out basic manners to be followed at various places, Eg. At Home – Keep it clean, be polite, share things, receiving guests, empathy with a family member who is ill. At dining table – Take small helping, eat small bites. Similarly list out more basic manners at – Home, dining table, park, party, on telephone, at school etc.

#### Science:

- (1) Cooking is a perfect occasion to enhance bonding within the family. Get involved in cooking without fire recipes. Prepare any dish for your family members. Write the method of preparation, ingredients used and nutritional information (carbohydrates, proteins, fats, minerals and vitamins) present in the dish prepared by you
- (2) Follow your mother in the process of making curd from milk. Obtain information on- materials required, steps to be followed. Try making it. Write your experience in 100 words.
- (3) Take 3 cups and mark them A, B, C. Pour luke warm milk in each cup. Boil the milk in container “A” once again. Add a teaspoon of ‘mother curd’ into each container and stir well. Keep container A & B at room temperature and container C in refrigerator overnight. Next morning examine each of the containers and ascertain whether curd setting has been successful and if so, in which container (s). Record your observation and write in your note book.

#### History/Civics:

- (1) Write about National holidays of India - (a) Republic Day (b) Independence Day (c) Gandhi Jayanti – Write about the relevance of these days, why and how we celebrate these days? (350 words)
- (2) India is a democratic country. Talk to your parents and gather information on Elections. Ask them about major parties, how do people register to vote?, the candidates and issues to vote on. Ask your parents to show you their voting cards etc. Write the information collected in 200 words.

#### Geography:

- (1) On a political map of India, mark the following – (a) States of India and their capitals. (b) Union Territories and their capitals. (c) Neighbouring Countries and their capitals.
- (2) Pick up any 5 states of India (like J& K, Himachal Pradesh, Assam etc.) Paste pictures giving details of their dresses, folk dances, food, crafts work etc.

#### Hindi:

- (1) मनोरंजक व ज्ञानवर्धक कहानियों की पुस्तक पढ़ो और किसी एक कहानी को, उससे मिलने वाली शिक्षा के साथ संक्षेप में, अपने शब्दों में लिखो।
- (2) प्रकृति के विभिन्न रूपों में से किन्हीं पाँच रूपों (नदियाँ, पर्वत, झरने, पेड़-पौधे, फल-फूल, सागर, बादल, चाँद, सूरज, तारे आदि) के चित्रों को चिपका कर उन पर दस-दस वाक्य लिखें।

#### Punjabi:

- (1) ਮਹੀਨਿਆਂ ਦੇ ਨਾਂ , ਹਫ਼ਤੇ ਦੇ ਦਿਨਾਂ ਦੇ ਨਾਂ , ਪੰਜ ਫ਼ਲਾਂ ਦੇ ਨਾਂ , ਪੰਜ ਸ਼ਬਦੀਆਂ ਦੇ ਨਾਂ , ਪੰਜ ਰੰਗਾਂ ਦੇ ਨਾਂ , ਪੰਜ ਪੰਛੀਆਂ ਦੇ ਨਾਂ , ਪੰਜ ਜਾਨਵਰਾਂ ਦੇ ਨਾਂ , ਪੰਜ ਫੁੱਲਾਂ ਦੇ ਨਾਂ ਲਿਖੋ।
- (2) ਦੱਸ ਮਾਤਰਾਂਵਾਂ (ਮੁਕਤਾ, ਾ, ੀ, ੀ, ੁ, ੁ, ੜ, ੜ, ਫ਼, ਫ਼) ਦੇ ਪੰਜ - ਪੰਜ ਸ਼ਬਦ ਲਿਖੋ।

#### Maths:

1. Write any four digits. Using the digits chosen by you form any -
  - a. Four 4-digit even numbers
  - b. Arrange the even numbers formed by you in ascending order
  - c. Four 4-digit odd numbers.
  - d. Arrange the odd numbers formed by you in descending order
  - e. Write the largest 4-digit number (from the set of all the even and odd numbers formed by you) and write its successor.
  - f. Write the smallest 4-digit number (from the set of all the even and odd numbers formed by you) and write its predecessor
  - g. Find the sum and difference of the predecessor and successor formed by you
- 2) Learn multiplication tables from 2 to 20 and write in your notebook.
- 3) Practice 5 sums of various operations for 10 days in your copy.

**Tender Heart High School, Sector 33-B, Chd.**  
**HOLIDAY HOMEWORK (2023-24) Class VI**

**English:**

1. Write the 3 forms (present, past and past participle form) of 20 verbs from your book – ‘Essentials of English Grammar’ Chapter 15 – ‘Verbs’ and also learn them. Eg. See (Present), Saw (Past), Seen (Past Participle)
2. Write the following message in 100-150 words :-
  - (a) Expressing apology: You recently had a quarrel with your brother/sister. After sometime you realized that it was your mistake. Write a message to him/her seeking forgiveness of your brother/sister.
  - (b) Expressing gratitude: Your friend helped you to complete your project work as you were not well. Write a thankful message to your friend.
3. Have you ever wanted to grow old quickly? Why and why not? Write in around 350 words.

**Maths:**

1. Collect any 5 decimal numbers like temperature data from newspaper (eg 24.2 °C). Write those numbers and then convert decimal into fraction. Now add all the decimal numbers that you have taken and write the end result into fraction.
2. Convert the given recipe to serving of 20 and 5

S.No.	Serving of 10	Serving of 20	Serving of 5
1	2 cups of flour		
2	1/2 tsp. salt		
3	2/5 tsp. cinnamon		
4	1/4 cup chopped nuts		
5	4/8 cup sugar		
6	2/4 cup shredded coconut		
7	1 egg beaten		

3. Chalk down your routine in tabular form as mentioned below during holidays.

S. No.	Activity	No. of Hours per day	Fraction of Hours per day
1	Playing		
2	Studying		
3	Watching T.V.		
4	Computers		
5	Sleeping		

4. Calculate the area of (different sizes) 2 doors, 2 windows, 1 table top at your home in cm<sup>2</sup> by using a measuring tape.

**Biology:**

1. (a) Think and list down any 5 healthy food items you eat at home. Paste their pictures. (b) Find out and write the advantages of eating such food items in about 10 lines. (c) Similarly, list the names of any 5 Junk food items you sometimes insist on eating. Also, paste their pictures/wrappers. (d) Write in about 10 lines the adverse effects of eating such junk food items on your health, if consumed regularly or in excessive amount.
2. Tree is a house to various creatures. What if there is no tree left on the earth? Imagine the situation and write a paragraph on it. Write down the various products and other environmental benefits we get from trees.

**Chemistry:**

1. Find out the information about the modes of transport used in olden times and compare them with the present day modes of transport, giving the types of fuel / energy used by them, their benefits, limitations and environmental harms/concerns.

- Water is important for our body cells to do their work. A person should drink at least eight glasses of water a day. Record the amount of water (no of glasses) you and other members of the family drink in one day. Keep a record for one day on the chart and answer the questions as follows-(i) Is there anyone who should perhaps be drinking more water each day? (ii) Do you think some foods may have also contributed water? (iii) Should you be drinking more water because of special climate or exercise?

### Physics

- Draw or paste the pictures of increasing and decreasing sizes of Moon into your note-book. Find out the reason for this increase or decrease in size of Moon and write it down in the form of a paragraph.
- Collect at least 10 materials from your surroundings. Try to see through them and classify them as Transparent, Translucent and Opaque objects. Note down your observations.

S. No.	Materials	Transparent/Opaque/ Translucent	Reason

Take these different types of objects in the sunlight and observe their shadow.

From the above observations conclude which type of object (Transparent, Translucent and Opaque) forms which kind of shadow (dark/light) or not forms the shadow and why?

- (a) Stand in front of a plane mirror. You can see your image in the mirror. Examine and write the following characteristics of image – shape and size, colour, details of your face etc. What happens when you move ten steps backward? Note down your observations. (b) Also, using a plane mirror, find out the mirror image of following alphabets - A, P, O, B, M, N. Record observations. Whose (which alphabet) mirror image does not change? Cut these alphabets from the centre by drawing a line. What do you observe? (**Hint:** The alphabets, whose mirror image does not change, are symmetrical.)

### History/Civics:

- The National Emblem of India is the identity of India's rich ancient heritage. Draw/paste its picture. Write a paragraph on its origin – where it has been taken from etc. Identify and collect the copy of documents/samples which have National Emblem on them. E.g. Passport, Coins, Rupee, Adhaar Card etc. Paste them in your notebooks.

### Geography:

- Identify the following with the help of a globe / atlas and represent the following on a world map (a) the Equator, Tropic of Cancer, Tropic of Capricorn, Arctic circle, Antarctic circle. (b) Identify the Temperate, Polar and Tropical zones. (c) The countries constituting the Indian sub-continent. (d) The southern most latitudes of the Indian mainland in degrees. (e) The states through which (India) Tropic of Cancer passes.
- On a physical map of the world mark the –(i) Following deserts -a) Turkestan Desert b) Australian Desert c) Kalahari Desert d) Gobi Desert e) Atacama Desert f) Sahara Desert g) Patagonian Desert. iii) Following Volcanoes (a) Volcán de Colima, Mexico (b) Mount Ararat, Turkey (c) Mount Buninyong , Australia (d) Kohala , Hawaii (e) Mt. Erebus, Antarctica (f) Huascarán , Peru (g) Sakurajima, Japan (h) Mauna Kea, Hawaii (i) Mt. Stromboli, Italy (j) Mount Fuji, Japan (k) Kilauea, Hawaii (l) Mt. Cleveland, Alaska (m) Mount Kilimanjaro, Tanzania, Africa (n) Mount Kulal , Kenya (o) Mt. Merapi, Indonesia  
Also find out and classify the above volcanoes as – Active, Dormant or Extinct.

### Hindi:

- अपने पालतु पशु / पक्षी या अपने प्रिय 'पशु/ पक्षी के विषय में 10 पंक्तियाँ लिखिए जिसमें उसके खान-पान, रहन-सहन, बोली आदि का वर्णन कीजिए।
- आपके माता-पिता आपका हर कार्य बेहद मन से करते हैं। आप भी उनको, अपने भाव व्यक्त करते हुए, धन्यवाद पत्र लिखिए।

**Punjabi** ਕਿਸੇ ਪੰਜਾਬੀ ਅਖਬਾਰ ਵਿੱਚੋਂ ਕੋਈ ਦੋ ਮੁੱਖ ਖ਼ਬਰਾਂ 10 ਦਿਨਾਂ ਤੱਕ ਆਪਣੀ ਕਾਪੀ ਵਿੱਚ ਲਿਖੋ ਅਤੇ ਤਸਵੀਰਾਂ ਚਿਪਕਾਉ।

**Tender Heart High School, Sector 33-B, Chd.**  
**HOLIDAY HOMEWORK (2023-24) Class VII**

**English**

1. Create a memorabilia reflecting 5 important and treasured moments of your life. Give a write up, use pictures and give interesting and relevant captions to each of them.
2. Find out 10 words which can be used both as nouns and verbs. You may follow the examples given below:
  - (i) I trust (verb) my friend completely. Trust (noun) is very important in a relationship.
  - (ii) I respect (verb) my parents very much. As children, we are taught the importance of showing respect (noun) to elders.
3. Write the biography of a person who has motivated you in your life? (500 words)

**Maths**

1. (a) Write the squares of all the numbers from 1 to 20. For eg :-  $1^2 = 1 \times 1 = 1$   
 $2^2 = 2 \times 2 = 4$  (b) Take a graph paper. Draw 6 squares A, B, C, D, E, & F on it with sides as follows: A = 1 cm, B = 2 cm, C = 3 cm, D = 4 cm, E = 5 cm, F = 6 cm. Now count the number of 1 cm squares in each of the above drawn squares i.e. (A, B, C, D, E & F). Write and conclude your observation. (c) Take a leaf and trace it on a graph paper. Find the area of figure so obtained by method of counting the squares on graph paper.
2. Find out the distance of all planets from sun. Write the distance in their scientific notation and exponential forms.
3. Note down the number of holidays (including Sundays) in each month from April 2016 to March 2017 and represent the data using (i) a bar graph (ii) a pie chart (iii) a frequency distribution table.
4. Visit a bank and get information on process of opening a 'Saving Bank Deposit Account' You can seek information on-minimum age limit, minimum balance needed to open, rules, passbook info, singly or jointly opened account, withdrawal forms, cheques etc. Write about all this collected information in your notebook. You can also paste some of these forms in your notebook.

**Physics**

1. ISRO had (on 15 Feb' 2017) launched 104 Artificial Satellites in the space. Gather information on – (i) ISRO - its activities and achievements,(2 pages) (ii) Man Made Satellites-their different types, their functioning and benefits to mankind, etc (3 pages). Write all this information in your notebook.
2. A) Take a used plastic bottle. Make three holes using a pin, along the height of the bottle- one near bottom, other near top and the third in the middle of the bottle. Keep it on the floor and fill it completely with water. Observe the water coming out of three different holes. Write your observation and explain - at what position is the pressure maximum?  
B) Find out 5 examples from your daily life where ever we make use of atmospheric pressure. eg Pulling liquid with straw.
3. Draw the following constellations a) Ursa Major b) Orion c) Hercules d) Cygnus e) Draco f) Pisces into your note-book. Find out their names in Hindi also if any.

**Chemistry**

Prepare a report on the topic-“RO based water filter” addressing the queries:-

- (i) What is reverse osmosis? How does reverse osmosis based water filter work?
- (ii) Why do we need RO water for drinking and consumption purposes?
- (ii) What is the range of TDS (Total Dissolved Solid) in potable water?
- (iii) What are the possible effects of drinking water with high TDS?

**Biology**

1. Investigate the change in the breathing rate (no of breaths per minute) of a person during various activities.
  - (a) Sit down comfortably on a chair. Immediately measure the breathing rate and record.

- (b) Walk for 2 minutes. Immediately measure the breathing rate and record.
- (c) Run for 2 minutes. Immediately measure the breathing rate and record.
- Now, compare and tabulate the breathing rates obtained in all the above conditions and write the conclusion in notebook.
2. Find information on the method of vegetative propagation for growing new plants. Make a list of 10 plants which can be grown by vegetative propagation and complete the observation table as given below -

Name of plant grown by vegetative propagation	Vegetative part involved	Picture
1.		
2.		
3.		
4.		
3.	Physical workouts/exercises tone up our muscles and help us to remain fit. Collect information about various exercises / yoga asana that are good for our health. Write about any two that you follow / are going to follow in your daily routine.	

### History/civics

1. Prepare a Time-line of any 25 important events in History of India, since Independence till date.(i.e. from 1947 to 2017). Eg 15 Aug. 1947- India gains Independence, 26 Jan 1950- India becomes Republic. October 20, 1962 – India China War.
2. Prepare a character sketch for any two of the following (3 pages) and write their contributions in the society - Maharaja Ranjit Singh, Tipu Sultan, Hyder Ali, Mirabai, Surdas, Tulsidas. Also discuss the traits of that person that you would like to adopt in life.
3. You are the member of School's Cabinet Committee. You have been asked to chalk out the duties of all the students. Write your plan including all Do's and Don'ts (Write about the behavior expected of them in class, in assembly, in school bus, in library, during functions etc.)

### Geography:

1. India is famous for its tourism. Find out atleast 10 tourist places of India and name the states in which they are found. Locate and label the states on the political map of India. Also give a small write up on any 5 of them.
2. On a map of India, mark the following rivers (refer to atlas) (a) Kaveri (b) Godavari (c) Mahanadi (d) Krishna (e) Brahmaputra (f) Ganga (g) Yamuna (h) Tapti (i) Narmada (j) Satluj (k) Ravi (l) Baes (m) Chenab (n) Chambal (o) Jhelum . Identify and also locate on map the industrial cities situated near them. Which of these cities is a major source of water pollution?

### Hindi:

1. अपने मित्र को 'पर्यावरण दिवस – 5 जून' का महत्त्व समझाते हुए एक पत्र लिखिए।
2. कल्पना कीजिए कि आप एक पत्रकार हैं। किसी एक विख्यात व्यक्ति (जैसे कैलाश सत्यार्थी, चेतन भगत, विराट कोहली) के साथ हुए साक्षात्कार को अपने शब्दों में लिखिए। (साक्षात्कार लगभग 300 शब्दों में होना चाहिए।)
3. बसंत ऋतु में मनाए जाने वाले किसी एक त्योहार पर 20 पंक्तियों की कविता लिखिए।

### Punjabi:

ਪੰਜਾਬ ਦੇ ਕਿਸੇ ਪੰਜ ਮਸ਼ਹੂਰ ਸ਼ਹਿਰਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਇਕੱਠੀ ਕਰਕੇ ਉਸਦੇ ਬਾਰੇ ਦਸ-ਦਸ ਸਤਰਾਂ ਲਿਖੋ ਅਤੇ ਤਸਵੀਰਾਂ ਚਿਪਕਾਉ ।

**Tender Heart High School, Sector 33-B, Chd.**  
**HOLIDAY HOMEWORK (2023-24) Class VIII**

**English:**

1. Read the beginning and complete the story – “One day, while going to school, I saw a puppy.....”(300 words)
2. Imagine that you are a Journalist and you have to interview a person known for his/her service to mankind. Frame a questionnaire for preparing yourself for interview. (Questions may include – introduction, childhood, achievements, contribution to society etc.)
3. Books encourage one’s imagination. Write a Book Review of any one book.
  - (i) Write a short summary of that book and name the main characters in it.
  - (ii) Choose 10 interesting adverbs from the book and find their dictionary meaning.
  - (iii) Find one synonym and one antonym for all the 10 words.
  - (iv) Make meaningful sentences using any 10 words.

**History&Civics**

- 1 Very often old buildings have a story to tell. Find out from your parents/grandparents and identify any one old building/monument in your surroundings. Try to find information about its period of construction, architectural pattern, purpose of construction, material used, when and by whom was it built etc. Also write about who looks after those buildings now.
- 2 Make a list of all the public facilities in your locality provided by Municipality. Also suggest some public facilities required in your area.

**Geography**

1. On a map of India show the various earthquake zone areas. Prepare a detailed analysis of any one of the major earthquake occurred in past (3 pages). Also write about the causes and mitigation measures in case of earthquake (2 pages).
2. Take the political map of India. Mark the following National parks and wildlife sanctuaries on it.

**National parks**

1. Bandipur National Park, Karnataka
2. Dachigam National Park, Jammu and Kashmir
3. Dudhwa National Park, Uttar Pradesh
4. Gir Forest National Park, Gujarat
5. Guindy National Park, Tamil Nadu
6. Jaldapara National Park, West Bengal
7. Jim Corbett National Park, Uttarakhand
8. Kaziranga National Park, Assam
9. Keoladeo National Park, Rajasthan
10. Kanha National Park, Madhya Pradesh

**Sanctuaries**

- Kanji Wildlife Sanctuary, Jammu and Kashmir  
 Pong Dam Sanctuary, Himachal Pradesh  
 Gandhi Sagar Sanctuary, Madhya Pradesh  
 Kane Wildlife Sanctuary Arunachal Pradesh  
 Chilika Bird Sanctuary, Odisha  
 Askot Musk Deer Sanctuary, Uttarakhand  
 Okhla Bird Sanctuary, Uttar Pradesh  
 Pocharam Forest & Wildlife Sanctuary, Telangana  
 Krishna Wildlife Sanctuary, Andhra Pradesh  
 Gautam Budha Wildlife Sanctuary, Bihar

Identify the top 3 states which have maximum protected areas. Also write down 5 differences each between National Parks and Wildlife Sanctuaries.

**Biology**

- 1 Collect 5 different types of flowers. Dissect the flowers to take out its floral parts.

S.No.	Name of Flower	Bisexual/Unisexual	Colour of petals	No. of petals	No of Sepals	No. of stamens

Find out modification if any present in flower e.g. Petaloid, Sepaloid. Gemo or Poly Sepalous, Gamo or Poly petalous, etc. Find out why the petals are coloured and the anther appear yellow. Record in your notebooks.

2. Gather information on the different 'Blood Groups'. Write the different types of blood Groups. Which one is universal donor? Which is universal acceptor? What does 'positive' and 'negative' stand for with regard to blood groups? Write the blood group of all your family members.

### Maths

1. Note down temperature for two weeks (14 days) of your place of stay and then depict the data on a linear graph. Then find out the hottest and the coolest day of the time period. Find out the average temperature of each week.
2. Write about the discovery/origin of  $\pi$  (pi). Write about the uses of  $\pi$  and why is it a unique number? Write atleast six mathematical formulae that have quotient of  $\pi$  ( eg. Diameter of a Circle =  $2 \pi r$  ) Do you know that the decimals of  $\pi$  are never ending? i.e. they go till infinity and no pattern of decimals is ever repeated. Write minimum 50 decimal place values of  $\pi$  after the integer.
3. Take a dice. Throw it 60 times and note the outcomes in your notebook for the same. Represent the obtained data using:(i) A Frequency Distribution Table (ii) a Bar Graph (iii) a Pie Chart.
5. Note down the age of all the members in your family and determine the following-  
(a) Who is the eldest member in the family? By what % age is this member elder to you? (b) Who is the youngest member in the family? By what % age is this member younger to the eldest? (c) What is the average value of age in your family?

### Chemistry

1. Take turmeric powder. Mix it with water. Take a filter paper and soak it in the paste. Let it dry. Cut the paper into its two pieces. Put one piece in citric acid solution and one in baking soda solution. Note the change in colours. Conclude your observation in the copy.
2. Why the use of LPG as a fuel is favoured over other fuels in kitchen? What precautions your family members take during the use of the cooking gas? If any leakage occurs, what steps one should take? Also design the blue print of your kitchen with all ventilation system. Find out from your mother or any elder at home that for how many days your LPG cylinder lasts? What practices may be adopted in cooking to reduce the consumption of LPG? Also find how do you check the expiry date of LPG cylinder.

### Physics:

1. The Building of PEDDA (Punjab Energy Development Agency) Sec 33 D, Chandigarh is the best example of 'Green Buildings' towards environment friendly techniques. Write some 750 words on - 'Green buildings'. ( Concept of 'Green building', how such buildings help in saving resources, their benefits, limitations if any).
2. State Newtons three laws of motion giving 2 examples each from your daily life.

### Punjabi:

ਪੰਜਾਬ ਦੀਆਂ ਕਿਸੇ ਪੰਜ ਖੇਡਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਇਕੱਠੀ ਕਰਕੇ ਦਸ-ਦਸ ਸਤਰਾਂ ਲਿਖੋ ਜਿਵੇਂ ਕਿ ਕੱਬਡੀ, ਗੁੱਲੀ-ਡੰਡਾ, ਹਾਕੀ, ਕਿੱਕਲੀ ਅਤੇ ਘੋੜ-ਦੌੜ ਆਦਿ ।

### Hindi:

1. "जल न होता तो जीवन कैसे चलता?" विषय पर अपने विचार व्यक्त करते हुए जल की उपयोगिता और 'जल संरक्षण' की विधियों को 300 शब्दों में लिखिए।
2. "ग्रामीण और शहरी वातावरण, रहन सहन, बोल-चाल, कार्य-कलाप आदि में क्या अंतर है? आपको कौन-सा वातावरण भाता है?" विषय पर 350 शब्दों में अपने भाव व्यक्त कीजिए।
3. नदी के परोपकारी स्वभाव को ध्यान में रखते हुए स्वयं रचित कविता लिखिए।

