Class VIII

To reduce the use of Paper and to Go Green school promotes the use of technology to save the Environment homework is being provided online. Summer Vacations is a break from a fixed schedule and to play unlimited, use your imagination and creativity and making the process of learning a fun. This Smart Summer holiday assignment is a challenge for your all round development and to present your imagination and creativity.

> Encourage the child to do the work independently.
> Provide guidance and support wherever required.
> Motivate your child to speak in English.
> To inculcate the reading habits encourage your child and motivate them to read newspapers and books.
> Entire Assignment is to be done using A4 sized Pastel Sheets and decorate it artistically.
> Print outs of Practice Worksheets (mentioned as 'Print') to be taken separately in order to complete them.
> Holiday Assignment should be submitted to the respective teachers within the First week after school reopens.
> Holiday Assignment will be evaluated on the basis of submission and quality of your work done and 50% marks will be added to Formative Assessment: 1.
Theme : The Colours of India

The name India is derived from Indus, which originates from the Old Persian word Sindhi. The latter term stems from the Sanskrit word Sindhu, which was the historical local appellation for the Indus River. The ancient Greeks referred to the Indians as Indoi, which translates as "The people of the Indus".

With a length of 2,525km, Ganges is the longest river of India. It is also the second largest river in the world in amounts of water discharge. Ganges is the result of confluence of two rivers- Alakananda and Bhagirathi. The meeting place of these two rivers is known as Devprayag. Alakananda is formed from the snow melt of Nanda Devi, Trisul, and Kamet peaks. Bhagirathi is formed from the Gangotri Glacier, at Gaumukh.

Indian Railway is certainly the 'Lifeline of the Nation' with its commendable performance since the last 150 years. Indian Railways is known to be the largest railway network in Asia and world's largest railway system under a single management. IR employs about 1.6 million people, making itself the second largest commercial or utility employer in the world.

English Reading Your holiday homework this year is a fun mix of all the aspects of the language. It has been designed to ensure that you enjoy and learn at the same time.

Activity 1: Read the famous book ‘Swami and Friends’ by R.K Narayan.

a) Write a short summary of the story (85 words) and name the main characters.

b) Choose 10 interesting adjectives and 10 adverbs from the book and find their dictionary meanings.

c) Find one synonym and one antonym for all the 20 words. Make interesting sentences using any ten words.

d) Represent the Sequence of the story in a form of Flow Chart.

e) Present your work creatively. Remember, you will have an FA based on the story and the incidents, so ensure that you read the entire text.

f) Make a book cover for the book.(The name of the book, author, illustrator and an illustration.)
Entertainment: -Activity 2: Watch a movie as allotted according to the Roll-No :

1. The Secret garden  (Roll- No 1-10)
2. I am Kalam - part 1/2/3  (Roll- No 11-20)
3. Honey I Shrunk the Kids  (Roll- No 21 -onwards)

BEFORE WATCHING FILM
1. What is the name of the film?

2. When was the film made?

3. Who are the main actors? What films have they been in before?

4. What does the title suggest to you?

WHILE WATCHING THE FILM
Type of film: ____ documentary ____ fictional ____ cartoon ____ narrated ____ contemporary ____ other

AFTER WATCHING THE FILM  Attempt any 7 Questions:-

Q1. Did you learn anything from this movie? If you did, what was it?

Q2. What did you like best event of the movie? Why?

Q3. What did you like least about the film? Why?

Q4. Did any of the characters in this movie make you angry? Tell us why.

Q5. What comment is the author trying to make about the culture of the characters in this story?

Q6. What was the strongest emotion that you felt when watching the film?

Q7. Did anything that happened in this movie remind you of something that has occurred in your own life or that you have seen occur to others?

Q8. If you had a chance to ask a character in this movie a question, what would it be?

Q9. Would you recommend this movie to a friend? Explain your reasons.

Q10. If you had a chance to ask a character in this movie a question, what would it be?
Science :- The rivers of India play an important role in the lives of the Indians. They provide potable water, cheap transportation,electricity, and the livelihood for a large number of people all over the country. Rivers are part of our communities. We cannot impact our local river systems without ultimately impacting our own health and well-being. These issues are not solely river issues, they are issues for human communities and for the future generations.**Hydropower** or **water power** means the energy of falling water or fast running water, which may be harnessed for useful purposes. Since ancient times, hydropower from many kinds of watermills has been used as a **renewable energy** source for irrigation and producing electricity. This is called **hydroelectric power** or **hydropower**. The most common type of **hydroelectric power** plant uses a dam on a river to store water in a reservoir.

**Activity 3**: Here is a link to watch The working models for hydro power generation. Watch it learn, understand and create your own working model.

https://www.youtube.com/watch?v=YQbloWfFLsA

https://www.youtube.com/watch?v=TXfwZ5_kyr4

**Activity 4**: Attempt any two of the following:

a) With the help of your parents and family doctor make a chart on vaccine given in the childhood and also mention the diseases
b) Make a chart of plant cell or animal cell.

c) Monsoon are vital for India. Find out how the monsoon have fared over the last five years in the country—particularly in the region where you live.

   a) Which areas suffered drought and floods?
   b) How did the rains, or the lack of them, impact agricultural output and prices of commodities?
   c) Find out what the term “El nino phenomenon” means. How does it impact the monsoon in India?
**Social Science : Activity 5**: Attempt any one of the following (Activity A or Activity B)

**Activity A: The Ganga** “The Ganges above all is the river of India, which has held India’s heart captive and drawn uncounted millions to her banks since the dawn of history. The story of the Ganges, from her source to the sea, from old times to new, is the story of India’s civilization and culture, of the rise and fall of empires, of great and proud cities, of adventures of man...” –

Youth and children can play a significant role in preserving the dying river Ganga and saving the people from the health and environmental hazards caused by the polluted river. Do you agree with this statement? Take any one stand and do the project accordingly.

**Make a project as per the instructions given below:**

- ‘River Ganga is the Life Line of North India.’ Discuss. (You must use pictures and clippings. Take help of internet to gather information.)
- Give an appropriate heading.
- Mark the course of river Ganga on the political map of India.
- Mention the states through which this sacred river flows and write the capitals of those states.
- Write the stretch of this river in kilometers.
- Search for various images of river Ganga. Paste at least 5 different images of Ganga as you see it now (present), 5 images of the river as it appeared 100 years ago (past) & 5 images of the river as it will appear after 20 years (future).
- Spot the differences between them and tabulate them as shown below.

<table>
<thead>
<tr>
<th>Ganga: 100 years ago</th>
<th>Ganga: Now</th>
<th>Ganga: After 20 years</th>
</tr>
</thead>
</table>

- Mention the recent steps taken by the Government: Clean Ganga, Green Ganga. Refer to newspapers and magazines to write your report in about 200-300 words.

**OR**

**Activity B: The Himsagar Express** is a weekly express train of the Indian Railways running between Kanyakumari in India's southernmost state of Tamil Nadu to Shri Mata Vaishno Devi Katra in Jammu and Kashmir- the northernmost state of India. It is currently the second longest running train on the Indian Railways in terms of distance and time.

Make a project as per the instructions given below:

- Search for various images of the train. Browse on internet and collect the information about the route of the train.
- Mark the states through which train passes & write the names of the stations of that particular state.
- Mention the capitals of the states as well.
➢ Make a route map of the train on a coloured A4 sheet.
➢ Collect the information of the total distance travelled by the train in kilometers.
➢ Collect the information when this train has been launched and under which government.

Mathematics:- Fun base **Activity 6**

Train Speed = Distance / Time.

- Some important facts need to remember to change km/h into m/s, we convert it multiply by 5/18.

Example: 90 km/hr means to say 90 x 5 / 18 = (5 x 5) = 25 m/s.

- We can convert m/s into km/hr multiply by 18 / 5.

Example: 90 m/s means to say 90 x 18 / 5 = (18 x 18) = 324 km/hr.

**Example 1:** A train 480 meter long running at the speed of 54 km/hr. In what time will it pass a bridge 120 meter long?

**Example 2:** Two local train are 220 meter and 180 meter length respectively. The trains are running at the speed of 35 km/hr and 55 km/hr in the same direction. What time would be taken to cross the first train?

**Example 3:**
In what time will a 350 meter long train running at the speed of 90 km/hr cross a pole?

**Example 4:**
A Rajdhani Express train 160 m long and running at speed 72 Km/h. It crosses a platform which is 240 m long. How much time will it cross a platform.

**Example 5:**
A Mail train 250 meters long passes a standing boy in 5 seconds. How long will it take to cross a bridge 500 meters long?

**Example 6:**
A super fast train 150 m long is running at the speed 90 Km/hr. Find the time taken by it to pass a boy standing near the railway track.
Mathematics Do any 3 practice worksheet:

Worksheet:1 (print)

1. \[3\text{cm} \times 4\text{ cm}\] Find value of x?

2. Write sum of interior angles of triangle

3. \[ (2x-5)^0 (3x+10)^0 \] Find value of x?

4. Given 2 concentric circles, such that OA = 4 cm and PQ = 2 cm.
   (i) Area of inner circle=
   (ii) Area of outer circle=
   (iii) Perimeter of inner circle=
   (iv) Perimeter of outer circle=

5. Find the area and perimeter of rectangle.
   (i) \(l=20\text{ m}, \ b=30\text{ m}\)

6. Find
   (i) Inner perimeter of path?
   (ii) Outer perimeter of path?
   (ii) Area of path?

7. Assuming 2.6% of salt in sea water, the weight of salt in 10 kg sea water is in kg.

8. Out of 990 students in school 60% are boys. Find the number of girls.

9. The price of washing machine is discounted 20%. If the original price is Rs. 12,000 then Find the discounted price.
10.  5% of 100 = 10% of

11. Out of Rs 300, I spent 20%. I saved Rs.

12. Angles of a triangle are in the ratio 2:1:3. Find angles of triangle.

Worksheet - 2 (print)

1) Find five rational numbers between:
   (a) -4/7 & 2/7      (b) -1/2 & 1/4      (c) 2.5 & 2.7
2) A floor is 2 ¼ m long and 1 ¾ m wide. A square carpet of side 1 ½ m is laid on the floor. Find the area of the floor that is not carpeted.
3) Divide the sum of 65/12 and 8/3 by their difference.
4) A shirt can be stitched using 2 ¼ m of cloth. How many shirts can be stitched using 31 ½ m of cloth?
5) Meena bought 5 ¾ m of rope at ₹ 3 ½ per metre and 3 ½ m cloth at ₹17 ½ per metre. How much money did she spend in all?
6) Nine times the reciprocal of a rational number equals 6 times the reciprocal of 17. Find the rational number.
7) Arrange the rational numbers in ascending order:
   a) 1/2, 1/3, 5/12, 11/24
   b) 2/3, 5/6, -8/3, 6/-9
   c) 2/3, 5/6, -8/3, 6/-9
8) Solve the equations by using cross multiplication:
   a) 2/3x - 3/2x = 1/12
   b) (9x-7) / (3x+5) = (3x-4)/(x+6)
   c) [(x+2)(2x-3) - 2x² +6] / (x-5) = 2
9) Of the three angles of a triangle, the second one is one third of the first and the third angle is 26° more than the first angle. Find all the three angles of the triangle.
10) Ronit is now 32 years old and his son is 7 years old. In how many years will Ronit be twice as old as his son?
11) A man left one third of his property to his daughter, one fourth to his son, and the remaining Rs 20,000 to his wife. How much money did the man leave?
12) Robin is 25 years younger than his father. After 10 years, their ages will be in the ratio 1:2. Find their present ages.
13) The sum of two numbers is 4000. If 15% of one is equal 25% of the other, find the numbers.
14) An aeroplane flies 3500 km in the same time a train covers 600 km. If the speed of the aeroplane is 50 km/hr more than five times the speed of the train, what are the speeds of the train and the aeroplane?
15) The distance between Delhi and Meerut is 75 km. Two trains at a speed of 100 km/hr and 80 km/hr leave the two stations at 8 am towards each other. At what time will they pass each other?
16) The ages of Ritu and Gita are in the ratio 5:7. Four years from now their ages will be in the ratio of 3:4. Find their present ages.
17) The angles of a quadrilateral are in the ratio 1:3:7:9. Find the measure of each angle.
18) PQRS is a rectangle, whose diagonals PR = 2x+4 and QS = 3x+1. Find the value of x.
19) The diagonals of a rhombus are 6 cm and 8 cm. Find the length of each side of the rhombus.
20) Prove that the sum of all angles of a trapezium is 360°.

Worksheet - 3 (print)

1. Determine the integer when it is divided by (-17), the answer is 21.
2. Determine the integer when it is divided by (-9), the answer is 23.
3. Determine the integer whose product with (-7) is 154.
4. Rohit earns profit of Re. 1 by selling one pen and suffers a loss of 50 paise by selling one pencil. One day Rohit earns Rs. 5. If he sold 25 pens, how many pencils did he sell?
5. Product of two integers is 630. If one integer is –30, find the other.
6. The product of two integers is –51. If one integer is –17, find the other.
7. An elevator descends into a mine shaft at the rate of 6 meter per minute. If the descentent starts from the ground level, how long will it take to reach 240 meter?
8. The temperature at 1.00 p.m. was 10°C above zero. If it decreases at the rate of 2°C per hour until 10 p.m., at what time would the temperature be 6°C below zero?
9. In a class test containing 10 questions, 5 marks are awarded for every correct answer and (–2) marks are awarded for every incorrect answer. Mohan gets 4 correct and 6 incorrect answers. What is his score?
10. If the sum of two integers is –1600 and one of them is 549, find the other number.
11. At Srinagar, temperature was –7°C on Tuesday and then it dropped by 2°C on Wednesday. What was the temperature of Srinagar on Wednesday?
12. A diver dives in the sea 270 m down. If the speed of diver is 3m/sec. How long will he take?
13. A man drives his car at the speed of 40 km/hr. How long will it take to cover 160 km?
14. Find next two numbers.

(i) 3 , 6 ,11 ,18 ,

(ii) 2,3,5,7,11,

Worksheet - 4(print)

1. Find the volume of cylinder
Height=10cm, base radius=7 cm.

2. Find the volume and surface area of cube if side of cube is 4 cm.

3. Find the volume of cuboid if l=10m , b=5m , h= 50cm,

4. Find perimeter of circle if radius of circle is 7 m.
5. Find volume of cone if height of cone is 7 cm and base radius is 10 cm.

6. Find the mean of the given following frequency distributions.

(i)

<table>
<thead>
<tr>
<th>x</th>
<th>f</th>
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<tbody>
<tr>
<td>2</td>
<td>2</td>
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<tr>
<td>5</td>
<td>4</td>
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<tr>
<td>7</td>
<td>6</td>
</tr>
<tr>
<td>8</td>
<td>3</td>
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(ii)

<table>
<thead>
<tr>
<th>x</th>
<th>f</th>
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<tbody>
<tr>
<td>20</td>
<td>3</td>
</tr>
<tr>
<td>52</td>
<td>40</td>
</tr>
<tr>
<td>17</td>
<td>16</td>
</tr>
<tr>
<td>80</td>
<td>13</td>
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</tbody>
</table>

7. If the mean of \( x, x+2, x+4, x+6, x+8 \), is 24 find \( x \).

8. Find the mean of each.

(i) First five natural numbers. (ii) First seven whole numbers
(iii) First Four prime numbers.

Worksheet - 5(print)

1. By selling an article for Rs. 480, a person lost 20%. For what amount should he sell it to gain 20%.

2. If a number \( x \) is 10% less than another number \( y \) and \( y \) is 10% more than 125, then find \( x \).

3. Find C.P if S.P = Rs 5500 and profit = Rs 1500.

4. Find S.P if C.P = Rs 500 and Loss = Rs 60

5. Find simple interest on

(i) Rs 500 at 6% p.a for 1 year.
(ii) Rs 6000 at 10% p.a for 4 years

6. Sunil obtained 750 marks out of 800 and Preeti obtained 540 marks out of 600. Whose performance is better.

7. Find the area of parallelogram.

(i)

(ii)

<table>
<thead>
<tr>
<th>Area= 200 cm²</th>
<th>Find CP= ?</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>P</td>
<td>D</td>
</tr>
<tr>
<td>C</td>
<td></td>
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Project Work
Student will calculate profit percent of different products purchased under various schemes according to advertisement. They will compare the cost of those products under various schemes and without schemes by constructing double bar graph.