



## *Rich Harvest Public School*

### **HOLIDAY HOMEWORK (2022-23)**

#### **CLASS: X**

**\* Note:**

*The holiday homework should be done on registers/notebooks as per the given instructions & must be uploaded on MS TEAMS (Assignment Sections)*

### **ENGLISH**

#### **Q.1 With reference to text book solve the following Questions (To be done in notebook)**

1. How did Mandela's 'hunger for freedom' change his life?
2. What did the postmaster do to answer the letter? How did he collect it? How did Lencho react to help?
3. Why did Lencho need God's help?
4. What does the fire and ice represent when concerned with human emotions?
5. What was the reaction of the poet when the dust of snow fell on him?

#### **WRITING AND READING SKILLS (To be done in notebook)**

6. Smartphone is one of the most important means of communication today. But it has also become a nuisance for some. Write an article on the same for 120-150 words.
7. Write an article in about 250-300 words on the following topics-
  1. Causes of poverty and means of overcoming it
  2. Apartheid (refer 'Nelson Mandela: A long Walk to Freedom')
  3. Imprisonment (refer 'A Tiger in the Zoo')
8. Write a letter to the editor of an English daily, making a plea to the common people to switch over to solar energy to conserve electricity and limit electricity bills.
9. Research on, select, write the biography and any one poem by the following poets:
  1. Robert Frost
  2. Walt Whitman
  3. Edgar Allan Poe
  4. William Blake
  5. John Keats

## हिंदी

ग्रीष्म अवकाश हेतु गृह कार्य

1. महाकवि सूरदास के व्यक्तित्व पर प्रकाश डालते हुए उनकी किसी एक कृति की वयाख्या करे
2. मातृभाषा के महत्व पर 300 शब्दों का निबंध लिखे
3. नेताजी का चश्मा पाठ में नगर पालिका कुछ न कुछ काम करवाती रहती है अपने आसपास पता करिये नगर पालिका ने कोण से विकास कार्य किये है सूची तैयार करे
4. हिंदी समाचार पत्र के सम्पादकीय पेज से 5 अपठित गद्यांश तैयार करे उन में 5 प्रश्न बनाए और उत्तर दे
5. लॉक डाउन के दौरान अपनी रोग प्रतिरोधक क्षमता को बनाए रखने के लिए क्या-क्या किया अपना अनुभव साझा करे
6. पढ़े गए सभी पाठों को याद करे

## MATHEMATICS

### Activity 1

Prepare a Flow chart on the following topics: -

- Chapter 1 Number system
- Chapter 2 Polynomial
- Chapter 3 Linear equation in two variables
- Chapter 15 Probability

Parameters

- (i) Presentation
- (ii) Neatness
- (iii) Content

### Activity 2

Do all examples of Chapter 2,3 and 4

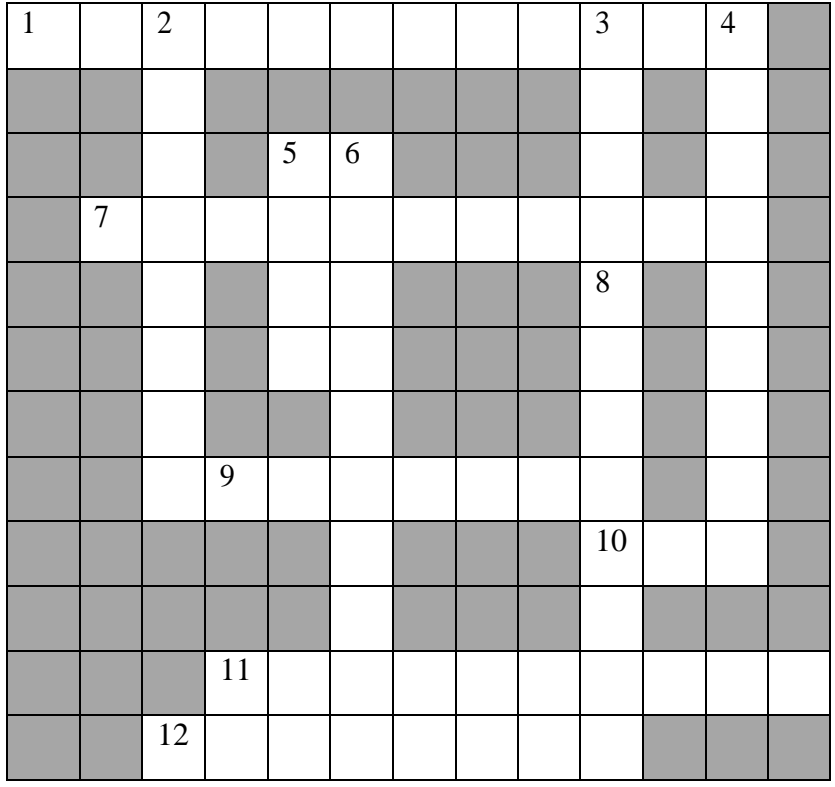
Parameters

- (i) Content
- (ii) Accuracy

### Activity 3

Solve this Mathematics crossword Puzzle

Objective – TO play with crossword puzzle using mathematical terms:



**Directions: -**



| <b>ACROSS</b>   | <b>DOWN</b>  |
|---|--|
| <p>1. The measure of uncertainty is called _____.</p> <p>7. The line drawn from the eye of an observer to the point in the object viewed by the observer is called _____.</p> <p>9. The common point of a tangent and circle is called point of _____.</p> <p>10. A tangent to a circle intersects it in _____ point(s).</p> <p>11. The mathematical instrument which is used for measuring the angle of elevation depression of an object is called ____.</p> <p>12. The distance of a point from y-axis called _____.</p> | <p>2. The distance of a point from x-axis called its _____.</p> <p>3. A quadratic equation <math>ax^2 + bx + c = 0</math> has _____ equal roots, if <math>b^2 - 4ac = 0</math>.</p> <p>4. Vertical cross section of a right circular cylinder is always a _____.</p> <p>5. The probability of impossible events is _____.</p> <p>6. Two or more circles having same center is called _____.</p> <p>8. Part of the circular region _____.</p> |

|            |   |
|------------|---|
| its _____. | enclosed between two radii and corresponding arc is called _____. |
|------------|---|

**DO LAB ACTIVITY(In the Maths Lab Manual)**

1. Zeroes of polynomials (Activity -2) page number 17.
2. Pair of linear equations two variables (Activity number-3) page number 23.

**SCIENCE**

**PHYSICS :-**

(1) Fill in the blanks:-

(a) A plane mirror produces magnification of \_\_\_\_\_.

(b) A beam of light incident on a plane mirror forms a real image on reflection. The incident beam is \_\_\_\_\_ ( parallel, convergent, divergent).

(2) True/False:-

(a) The radius of curvature of a spherical mirror is half of the focal length.

(b) The rays travelling parallel to the principal axis after reflecting from the concave mirror pass and appear to pass through the focus.

(3) An erect image three times the size of the object is formed with a concave mirror of radius of curvature 36cm. What is the position of the image?

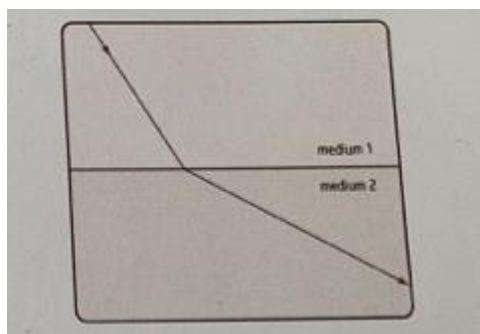
(4) For driving a car what type of mirror would you prefer to see the traffic at your back and why? Why is it preferred over plane mirror?

(5) Find the position, nature and size of the image of an object 3cm high placed at a distance of 9cm from a concave mirror of focal length 18cm.

(6) Draw neat and well-labelled ray diagrams of concave and convex mirrors and lens in a scrap copy.

(7) Draw the neat well-labelled and colourful diagram of refraction through a glass slab on A4 sized sheet.

(8) Complete the blanks:-



(i) In this diagram, a light ray is crossing the boundary between air and water. Since the ray is refracted \_\_\_\_\_ the normal, the speed of light must be \_\_\_\_\_ in medium 1 than in medium 2. Thus medium 1 is \_\_\_\_\_ and medium 2 \_\_\_\_\_.

(ii) The refractive index of a medium is the ratio of speed of light in \_\_\_\_\_ to the speed of light in \_\_\_\_\_.

(9) Read chapter Electricity from NCERT.

**BIOLOGY:-**

(1) Draw the neat, clean and colourful following diagrams on A4 sized sheet (one diagram on each sheet):-

| ROLL NO    | TOPIC  |
|------------|--|
| 1-15       | Chloroplast, Human alimentary canal and excretory system         |
| 16-30      | Closed and open stomata, human heart, chloroplast                |
| 31 onwards | Human excretory system, Human respiratory system and human heart |
|            |  |

(2) What are the steps taken by the Govt. Of India to make India Self Reliant against Covid-19 (Testing kits, Protection kits, Masks, Vaccination, Ventilators, etc). Prepare a report on it in a scrap copy. (Similar one used for physics)

(3) Explain the function of the following in the scrap copy:

- (i) Xylem (ii) Phloem (iii) stomata (iv) Digestive enzymes (v) Villi

**CHEMISTRY:-**

(1) Give an example of thermal decomposition and photo decomposition. Also give the reaction involved.

(2) Draw a well labelled schematic diagram of electrolysis of water. Why is the amount of gas collected in one of the test tube in the activity is double the amount of other gas?

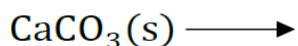
(3) What happens when lead nitrate is heated?

(4) Name the type of reaction involved.

(i) Vegetable matter changing into compost.

(ii) Burning of natural gas.

(5) Complete the equation and name the type of reaction.

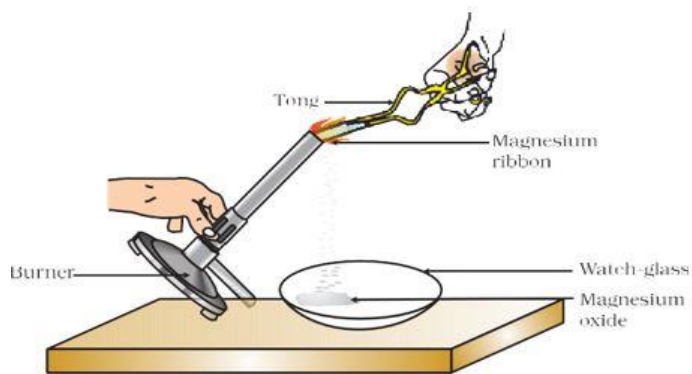


(6) What are reducing and oxidising agents?

(7) Balance the following equations:-



(8) Observe the following activity and answer the following questions:-



(i) Name the product formed. Give the equation involved.

(ii) What is the colour of the powder formed?

(iii) The formed powder is \_\_\_\_\_.

**NOTE:- (1) Do all the questions in a separate science copy.**

**(2) Use white A4 sized for the activities.**

**(3) Do the practical in the Lab Manual ( as explained in the class).**

## **SOCIAL SCIENCE**

### **HISTORY:-**

1. Read the chapter Rise of Nationalism in Europe and make Notes for the complete chapter. Do the work in the register.
2. Trace the political map of India in 1947 and compare it with the map of India in 2022. Paste the maps in your civics copy.

### **GEOGRAPHY:-**

#### **CH-1 RESOURCES & DEVELOPMENT**

1. What is the relevance of Gandhian model of resource conservation in today's world?
2. Discuss the purpose of Rio de Janeiro Earth Summit and Agenda 21.

### **CIVICS:-**

#### **CH-1 POWER SHARING**

1. What are the basic elements of the Belgium model of power sharing?
2. Differentiate between Horizontal and vertical division of powers.
3. Compare the ways in which the Belgium and the Sri Lankans have dealt with cultural diversity.
4. "Both Belgium and Sri Lanka are democracies but they follow different system of power sharing". Support the statement by giving three points of differences.
5. Describe the ways in which power can be shared among government at different levels.

### **ECONOMICS :-**

#### **CH-1 DEVELOPMENT**

1. Activity on Page 4 of NCERT Book Complete the table for Developmental Goals of Different Categories of Persons.
2. Why countries of the Middle east are not called developed in spite of high per capita income.
3. Define the following terms. i) Infant Mortality Rate ii) Literacy Rate iii) Net Attendance Ratio.

Revise Geo ch-1, Civics ch1 thoroughly

\* Map Work for Geography i) Major soil types (Mark the areas, colour and labelling of major soils (Mark the areas, colour and labelling) Refer Ch-1 of Geo (Resources and Development)

ii) Major rivers of India (Marking and labelling) Refer ch-3 of Geo (Water Resources)

- i) Major dams of India: Salal, Bhakra Nangal, Tehri, Sardar Sarovar, Rana Pratap Sagar, Nagarjuna Sagar, Tungabhadra. Refer Ch-3 of Geo (Water Resources)

**PROJECT WORK: -**

**Make Project according to the Roll No's as mentioned.**

- Consumer Awareness (Roll No 1 to 20)
- Sustainable Development (Roll No 21 onwards)

\* Revise all the topics covered in the class for Geography, civics and Economics thoroughly.