Summer Holiday Homework
Class – 10th

Holidays are about experiences and people, and turning into what you feel like doing at that moment. It's time to Relax, Reflect and Recharge!

Dear Parents/Students,

Kindly Note—

1. The Summer Break is scheduled from 27th MAY 2024 to 23rd JUNE 2024.

2. Regular classes will commence on 24th JUNE 2024 at Usual Time.

Plan out and complete the holiday homework in time. **In addition, revise the syllabus already completed**.

 Please complete the work and submit it to the subject teachers in the first week of opening the school. Holiday's homework has been designed with the following objectives: To keep children connected with the syllabus.· To engage children constructively.· To help students prepare projects in consultation with the subject teacher.·

NOTE-- Holiday homework will be part of the subject enrichment activity for the First Term bearing 5 marks in each subject.

Hope to see you soon
Happy summers!

English

❖ Do complete the given worksheets of practice paper from page no. 11 to 52 (Unseen passage). Page no. 103 to 176 (Grammar).

❖ Maintain a personal diary and write two new words everyday along with their examples (sentences).

Science (Chemistry)

Write the following practicals in the lab manual prescribed by the school.

❖ Ex - Finding the pH of the following samples by using pH paper/universal indicator:
1. Dilute Hydrochloric Acid
2. Dilute NaOH solution
3. Dilute Ethanoic Acid solution
4. Lemon juice
5. Water
6. Dilute Hydrogen Carbonate solution

❖ Ex - Studying the properties of acids and bases (HCl & NaOH) on the basis of their reaction with
1. Litmus solution (Blue/Red)
2. Zinc metal
3. Solid sodium carbonate

❖ Ex- Performing and observing the following reactions and classifying them into:
1. Combination reaction
2. Decomposition reaction
3. Displacement reaction
4. Double displacement reaction

1. Action of water on quicklime
2. Action of heat on ferrous sulphate crystals
3. Iron nails kept in copper sulphate solution
4. The reaction between sodium sulphate and barium chloride solutions

❖ Ex - Observing the action of Zn, Fe, Cu, and Al metals on the following salt solutions:
1. $ZnSO_4(aq)$ 2. $FeSO_4(aq)$ 3. $Al_2(SO_4)_3(aq)$ 4. $CuSO_4(aq)$

❖ Arranging Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result.

Biology

A. Write the following practicals in the lab manual prescribed by the school
B. EX-1. To prepare a temporary mount of a leaf peel in order to show the stomata of a leaf.
C. EX-2. To study about
   (a) Binary Fission in amoeba and
   (b) Budding in yeast with the help of prepared slides

B. Make a file on given topics- roll numbers are mentioned below do accordingly

   1. Nutrition in humans (Roll no. 1-4)
   2. Excretion in humans (Roll no. 5-8)
   3. Circulation in humans (Roll no. 9-11)
   4. Respiration in humans (Roll no. 12-15)
   5. Transportation in plants (Roll no. 16-18)
   6. Ozone layer depletion (Roll no. 19-21)
   7. Reproduction in humans (Roll no. 22-24)

Physics

A. Write the following practicals in the lab manual prescribed by the school
   1. Determination of the focal length of:
   (i) Concave mirror
   (ii) convex lens by obtaining the image of a distant object.

   2. 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.

   3. Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determining its resistance. Also plotting a graph between V and I.

   4. Determination of the equivalent resistance of two resistors when connected in series and parallel.

   5. Make a project report on Electricity

Note- Kindly use A4 sheets and folder to make project.
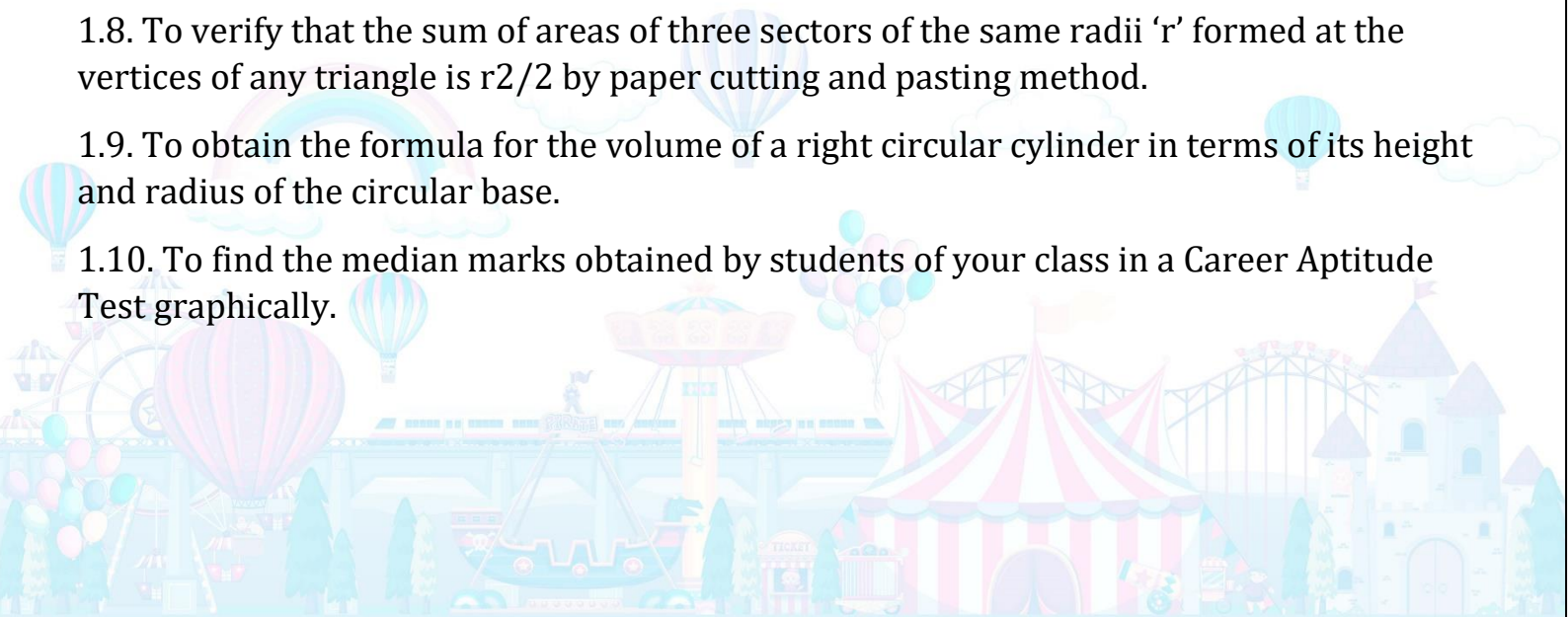
Social Science

- ❖ Make a project on the given topics
- ❖ Roll no 1-5 Consumer Rights
- ❖ Roll no 6-10 Child Labour
- ❖ Roll no 11-15 Girl Education
- ❖ Roll no 15-24 Sustainable development

- ❖ Lab Manual 10 class
- ❖ Geo=9-12 page
- ❖ History=32-36 page
- ❖ Civics=54-57 page
- ❖ Economic=72-74 page

Mathematics

Do the given activities in lab manual

1.1. To draw the shape of the curve when the coefficient of x^2 is positive.

1.2. To obtain the conditions for consistency or inconsistency of a system of linear equations in two variables by graphical method from three different pairs.

1.3. To find the sum of the first n odd natural numbers.

1.4. To verify the section formula using graphical method.

1.5. To verify experimentally that the ratio of the areas of two similar triangles is equal to the square of the ratio of corresponding sides.

1.6. To verify that the length of tangents drawn from an external point to a circle are equal using the method of paper folding.

1.7. To verify the trigonometric identity $\sin^2 + \cos^2 = 1$.

1.8. To verify that the sum of areas of three sectors of the same radii 'r' formed at the vertices of any triangle is $r^2/2$ by paper cutting and pasting method.

1.9. To obtain the formula for the volume of a right circular cylinder in terms of its height and radius of the circular base.

1.10. To find the median marks obtained by students of your class in a Career Aptitude Test graphically.

हिन्दी

अरुणाचल प्रदेश (वर्ग – अ) और **मेघालय (वर्ग – ब)** पर कला एकीकृत परियोजना तैयार कीजिए।

Information Technology

❖ Create A Presentation With Animation On "Entrepreneurship"

    A. Headings: Font Name:Times New Roman, Size:24, Color:Red

    B. Paragraph: Apply Style Text Body From The Style Gallery

    C. Quote: Font Name:Broadway, Size:16, Color:Black, Alignment:Center