

KALKA PUBLIC SCHOOL
ALAKNANDA, DELHI
HOLIDAY HOME WORK

CLASS VIII (MULTI DISCIPLINARY INTEGRATED HOMEWORK)

- **TOPIC: Conventional and non-conventional sources of energy**

□ **SUBJECT : ENGLISH**

Q1. READING: Reading is a gift that can be opened again and again. Reading is a conversation. All books talk but some books listen as well. Here's suggesting a few books to read during vacations.

Write a BOOK REVIEW of any one book you read and submit in the following format: –

Use A-4/A-3 size coloured sheets –

Name of the book

name of the author

Book type –

Start date, end date,

brief summary –

Main characters –

Most interesting part of the story,

not so interesting part –

Would you recommend it to others –

Any drawing related to the story

SUGGESTED BOOKS :

1. Malgudi days....R.K NARAYAN
2. The adventures of Tom Sawyer.....MARK TWAIN
3. Untouchable.....MULK RAJ ANAND
4. Children's Omibus.....RUSKIN BOND

Q2 RESEARCH AND EXPLORE

Non Conventional Energy.....Need of the hour Visit any solar power plant in any building or apartment and interview the manager/owner of the power plant. Take a photograph while interviewing and paste it in your notebook.

Grammar Notebook Work: Prepare a QUESTIONNAIRE by taking help of the hints given below: · Amount of solar energy required to generate 1MW power · cost of the power plant · details of the

equipment used · time taken to complete the plant · advantages · disadvantages of the solar power plant

Q3. Do one page of cursive writing for 20 days in any notebook.

HINDI

- 1. अपनावअपनेपरिवारकेसदस्योंकीफोटोलगातेहुएनामकावर्णविच्छेदकरें ।
-
- निर्देश :-
- *फूलोंकीआकृति
- *सूरजकीआकृति
- *विच्छेदकापेड़
-
- 2. हिंदीकेअखबारकामुख्यपृष्ठबनाएंजिसमेंमुख्यतथ्यहोंगेजैसे :-
-
- * अखबारकानाम
- * सौरऊर्जाऔरपवनऊर्जासेसंबंधितअनुच्छेद
- * सूर्यकेप्रकाशसेसंबंधितकविता
- * दैनिकजीवनमेंऊर्जाकामहत्व
-
- 3. ऊर्जासंरक्षणसेसंबंधितसचित्रनारालेखनतैयारकरें ।
-
- निर्देश:- A- 3 आकारकेपृष्ठपरकीजिए ।

Subject: Maths

Gather data/information on different energy resources which are consumed in India. Collect data from 2010 to 2020. Depict your data/information in a bar graph showing how much energy is consumed in India. Data can be collected in percentage form.

Scale: For bar graph :

(On X axis- Take 1cm = 2 years

On Y axis- Take 1cm = 10%)

Points to be covered-

Coal

Electricity

Natural gas

Petroleum

Non-Conventional

MATHS:

INSTRUCTIONS: All questions are to be solved in MATHS NOTEBOOK.

Q1. Find two rational numbers between $\frac{1}{2}$ and $\frac{3}{4}$.

Q2. Evaluate: $\left(\frac{2}{11} \times \frac{-22}{15}\right) + \left(\frac{-1}{6} \times \frac{3}{4}\right) + \left(\frac{-1}{21} \times \frac{-3}{5}\right)$.

Q3. What should be added to $\frac{7}{15}$ to get - 2 ?

Q4. Subtract the sum of $\frac{-4}{5}$ and $\frac{1}{4}$ from 1.

Q5. Arrange in ascending order: $\frac{1}{2}, \frac{4}{5}, \frac{-2}{3}, \frac{-1}{2}, \frac{-5}{7}$

Q6. If $a = \frac{3}{4}, b = \frac{-1}{2}$ and $c = \frac{1}{2}$ verify: $(a + b) + c = a + (b + c)$

Q7. A bag contains green and red balls. The ratio of the number of green to red balls is 3 : 4 . If the bag contains 140 balls in total, then find the total. number of red balls in the bag.

Q8. Seven times the reciprocal of a number added to $\frac{2}{3}$ is 3. Find the number.

Q9. A car travels $\frac{880}{3}$ km in $\frac{11}{3}$ hours. Find the average speed of the car in km/h.

Q10. If the cost of 1 metre of cloth is Rs. $\frac{256}{3}$. Find the cost of $\frac{9}{2}$ metres of cloth.

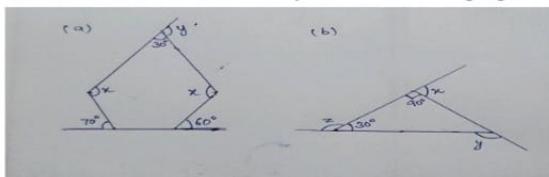
Q11. If a 56 metre long ribbon is cut into equal pieces measuring each, how many such pieces are formed from the ribbon.

Q12. Simplify : (i) $\frac{25 \times t^{-4}}{5^{-3} \times 10 \times t^{-8}}$ (ii) $\left(8^{\frac{2}{3}} + 4^{\frac{1}{2}} \times 8^{\frac{1}{3}}\right)^{-\frac{1}{3}}$

Q13. Solve for x: (i) $4^{2x+5} = 64$ (ii) $\frac{11}{7}^{2x+1} \times \frac{11}{7}^5 = \frac{11}{7}^{x+2}$

Q14. Find the value of x so that $(2^{-1} + 4^{-1} + 6^{-1} + 8^{-1})^x = 1$

Q15. Find the value of x and y in the following figure



Q16. How many sides does a regular Pentagon have if each of its interior angles is 165°.

Q17. Express the following in standard form:

(i) 0.0000000000000885 (ii) $\frac{1}{10000000}$

Q18. Mass of earth is 5.97×10^{24} kg and the mass of moon is 7.53×10^{22} kg. What is the total mass of the earth and the moon together?

Q19. Express the following in usual form:

(i) 1.0001×10^9 (ii) 3×10^{-8}

Q20. Find $\frac{3}{7} + \frac{-6}{11} + \frac{-8}{21} + \frac{5}{22}$

Social Studies

Q1. **Activity Based:** Students need to mark the following places in an outline political map of India - A place where hydel, thermal and nuclear power plants are located.

Q2. **Project Based:** Watch a documentary or a video on LIFE IN A VILLAGE and on the basis of this, find out :-

- The natural resources available there.
- The kind of topography that the village has - mountain, plain, desert, etc.
- Mention the problems faced by the villagers.
- Suggest solutions to solve these problems.

Q3. Use pictures to explain features of different types of soil found in India and the crops that grow in it.

Q4. Find out about conventional and non conventional sources of energy and write their merits and demerits. Explain what role they can play to meet the increasing needs of energy resources. Mention your innovative ideas.

Note: All the holiday homework is to be done in the scrapbook.

SCIENCE

Prepare a project or model on any one non conventional sources of energy. Discuss the following pointers in the project or model

For project

1. It must be hand written and to be done on A4 size sheet
2. Potential of non conventional source of energy
3. It must include photographs of various energy sources.
4. Pros and cons about the use of energy sources.
5. Extent to which pollution can be minimised
6. Compare it with conventional sources of energy

For model:

1. The model must be made using waste
2. Use your own creativity to design the model.

SANSKRIT

1. भाषाकेसौंदर्यकोबढ़ानेकेलिएपर्यायवाचीशब्दोंकाप्रयोगकियाजाताहै।ऐसेहीकुछपर्यायवाचीशब्द

"नईदीपमणिका " केपृष्ठसंख्या - 88

मेंदिएगएहैं।उनमेंसेकिन्हीपांचशब्दोंकेपर्यायपदोंकोलिखकरसंबंधितचित्रबनाएंअथवाचिपकाएं।

2. अपनेविद्यालयकावर्णन 10 संस्कृतवाक्योंमेंवार्तालापकेमाध्यमसेलिखिए।सहायताकेलिएपाठ -1

"अस्माकंविद्यालयः " देखसकतेहैं।

(आवश्यकनिर्देश)-

* यहसभीकार्यसंस्कृतउत्तरपुस्तिकामेंसाफएवंसुंदरअक्षरोंमेंलिखिए।

* विद्यालयकाचित्रबनासकतेहैं।अथवाचिपकासकतेहैं।

CODING

In recent years, conservation has been improved by technology such as Unmanned Aerial Vehicles (UAVs), IoT sensors; crowd sourcing, and machine learning. Develop a project using any one of the above technology and show the complete working through video.