

SCHOOL NAME : _____

Hurray! Summers again and it's time for a break! Let us break the monotony of doing the same boring home assignments and explore the interesting ongoing themes through different subjects. There are two themes, labelled as Theme 1 and Theme 2. Choose **any one theme** and explore about the same through the projects defined under each subject.



Serve water to all those who work in your home/community such as guards, domestic helps, etc. during the summer holidays.

Wishing you all 'A HAPPY AND HEALTHY' summer break!



THEME 1 Farmers Farm, We All Eat!!

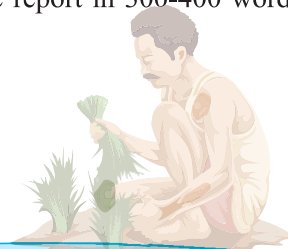
Agriculture is one of the most important sector in our country. It includes cultivation of several crops, fruits, vegetables, flowers and rearing of livestock. In India, two-third of its population is dependent on agriculture for their source of income. The high demand of agricultural produce has made its mark in the world market as well.

Exciting ENGLISH

Report on Conditions of Farmers and their Farms

Farmers nowadays are facing a lot of problems and are living in a deteriorated condition.

- Choose any one of the states mentioned below:
 - Punjab
 - Uttar Pradesh
 - West Bengal
 - Andhra Pradesh
- Conduct a research for the chosen state and write a descriptive report in 300-400 words covering the following parameters.
 - Major crops of the chosen area
 - Speciality of the crops
 - Farming techniques used in that area
 - Past and present conditions of farmers in that area



हर्षाती हिंदी

देश तब उन्नत होगा, जब किसान संपन्न होगा

इंटरनेट, समाचार पत्रों, पत्रिकाओं और पुस्तकों की सहायता से अंतर्राष्ट्रीय और भारतीय किसान की जीवन शैली में चित्र लगाकर अंतर स्पष्ट कीजिए और उनकी दशा के बारे में उदाहरण सहित ब्लॉग पेज बनाकर लिखिए। ध्यान रहे, इसमें रचनात्मकता का प्रयोग हो।

Sparkling SCIENCE

Effects of Pesticides on the Environment

Prepare a PowerPoint Presentation on the topic 'Effects of Pesticides on the Environment'. Refer to the books, magazines or the Internet to collect the information. Ensure to include the following points in the presentation:

- Various categories of pesticides along with their examples
- Reason for using pesticides
- Effects of pesticides on —
 - soil (both long and short term effects)
 - main crop and water sources
 - birds, animals, insects and humans
- Case study of an Indian industrial disaster associated with pesticides

Sassy SOCIAL SCIENCE

Farmers: The Heroes of Our Nation

Everyday we come across news about the suicide attempts by the farmers as they work under immense distressed conditions. Imagine that you own an NGO which works for the welfare of farmers of India. You need immediate government funding to achieve the motive of your NGO, that is, to improve the conditions of the farmers. Prepare a report on your action plan to present it before the government. Your plan must include the following aspects.

- Farmers' concerns
- Factual evidences supporting reasons behind farmers' suicides through newspaper cuttings, citations in journals, Internet, etc.
- Statistical analysis on Farmers' Suicides in India, over the past 2-3 decades
- List of areas citing the needs for funding such as need of pesticides, high yielding variety of seeds, etc.

Magnetic MATH

Green Revolution

An infographic is a collection of images, charts and minimal text that gives an easy-to-understand overview of a topic. Make an infographic on the topic 'Green Revolution'. Include the following aspects in your infographic:

- Meaning of green revolution
- Time period during which the green revolution happened
- Advantages and Disadvantages of green revolution
- Statistical analysis of food production in India and one more country in past 60 years

For statistical analysis, collect data for the years 1958, 1968, 1978, 1988, 1998, 2008 and 2018 and represent it through a bar graph. Give a conclusion to your observations.

THEME 2 Our Heritage, Our Pride



Cultural heritage includes all the values and aspects transmitted from one generation to another. India is a land of diverse cultures and traditions. Its cultural development has been a long historical process. This heritage needs to be protected and maintained so that the identity of every individual is not lost.

Exciting ENGLISH

Movies: A Glimpse of Indian Culture

Watch any one historical movie like Rang De Basanti, Lagaan, Padmavat, Jodha Akbar, etc. Write a movie review showcasing the rich cultural heritage of India. The movie review must include the following parameters.

- Summary of the movie
- Glimpses of Indian culture showcased in the chosen movie

हर्षाती हिंदी

संस्कृति का करो सम्मान, बन जाओगे महान

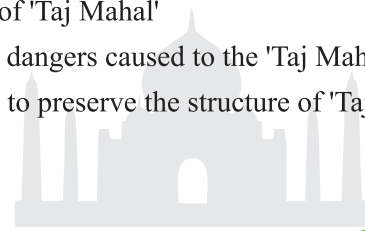
आपके/अपने नाना-नानी/दादा-दादी/मित्र/किसी अन्य रिश्तेदार के पड़ोस में भी अलग-अलग राज्यों से संबंधित लोग रहते होंगे। उनमें से किन्हीं दो के साथ टेलीफोन पर इंटरव्यू करें। इंटरव्यू करते हुए महत्वपूर्ण प्रश्न(जैसे उनका नाम, राज्य, बोली, वेशभूषा, त्योहारों, भोजन, नृत्यों और अन्य रोचक तथ्यों इत्यादि के बारे में) पूछें। एक सुंदर और आकर्षक बुकलेट बनाकर दोनों व्यक्तियों के साथ किए गए इंटरव्यू को लिखें।

Sparkling SCIENCE

Threat to the Seventh Wonder of World

Prepare a report on the topic 'Discolouration of Taj Mahal'. Make sure to include the following points:

- Type of material used to build the Taj Mahal
- Pollutants responsible for deteriorating the structure of 'Taj Mahal'
- Enlist the dangers caused to the 'Taj Mahal'
- Measures to preserve the structure of 'Taj Mahal'



Sassy SOCIAL SCIENCE

Explore the Unexplored

Choose a monument from the ancient or contemporary Indian times such as Meenakshi Temple, Lotus Temple, etc. Now collect information and make a project on the following parameters:

- | | |
|---------------------------------|---|
| • Built in which year/century | • Material used in the construction |
| • Duration in which it was made | • Explanation on design and style of architecture |
| • Name of the creators | • Key features |

Magnetic MATH

Indian Mathematics: Our Heritage

Make a project on History of Indian mathematics and its contributions to the world. Your project must include the following parameters:

- Information about the life and contributions of any 5 mathematicians of India. For example, Aryabhata, Ramanujam, etc.
- History of Vedic Mathematics
- Any 5 to 6 techniques of Vedic Mathematics which can help you speed up your calculations

Also, solve any 5 mathematical problems using the techniques/tricks of Vedic Mathematics and the conventional method. Record and compare the time taken to solve the problems using each method.

MATH PRACTICE

1. Fill in the blanks.

a. $456 + (-4,340) = \underline{\hspace{2cm}} + 456$

b. $246 + [(-56) + (-111)] = [246 + (-56)] + \underline{\hspace{2cm}}$

c. $-5637 \times 1 = \underline{\hspace{2cm}}$

d. $3649 \times 0 = \underline{\hspace{2cm}}$

e. $(-8) \times (56 \times 382) = [(-8) \times \underline{\hspace{2cm}}] \times 382$

f. $35 \times [\underline{\hspace{2cm}} \times (-67)] = [35 \times (-42)] \times (\underline{\hspace{2cm}})$

2. Using the properties of integers, find the value of the following.

a. $-24 \times (-31) \times (-10) \times (45)$

b. $134 \times (-25) + (-134) \times (65)$

c. $(-12) \times (-45) \times 0$

3. Average temperature of Delhi and Antarctica in the month of May is 36°C and -8°C respectively. Find the difference between the two temperatures.

4. Find the value of B for which both the given statements will be true.

Statement 1: $B \div 56 = B$

Statement 2: $56 \div B$ is not possible.

5. Determine whether 7,564 is divisible or not by 2, 3, 4, 5, 6, 8, 9 or 10.

6. Two lights flash after every 15 seconds and 45 seconds respectively. If the two lights flashed together at 3 p.m., at what time will they flash together next time?

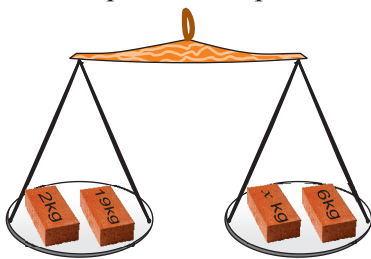
7. What is the LCM of two co-prime numbers?

8. Find the value of y so that the given statement is true.

$$45 \times y + 35 = 395$$

9. Write the equation as represented by each weighing scale.

a.



b.



10. Identify the given angles as acute, obtuse, right, straight, reflex or complete angle.

56°

147°

230°

360°

90°

175°

11. Identify and write the names of the following solid figures.

a.



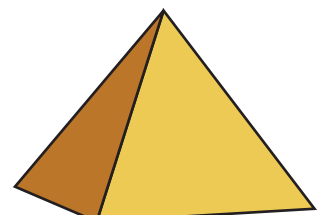
b.



c.



d.



12. What fraction of 1 hour is 25 minutes?
 13. How many one-sixths are there in a whole?
 14. Replace * with an appropriate number so that the statement is true.

$$\frac{*}{8} + \frac{*}{8} + \frac{*}{8} = 1$$

15. Arrange $4\frac{5}{6}, 7\frac{3}{4}, 1\frac{2}{5}, 3\frac{1}{4}$ in the descending order.

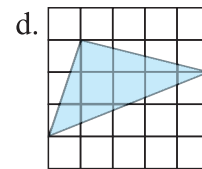
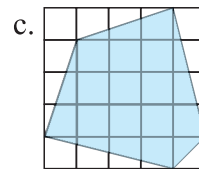
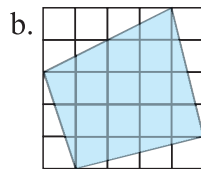
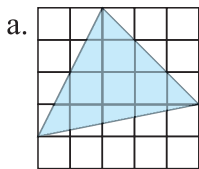
16. Round off the following decimals as instructed.

a. 5.687 to the nearest tenths

b. 43.897 to the nearest hundredths

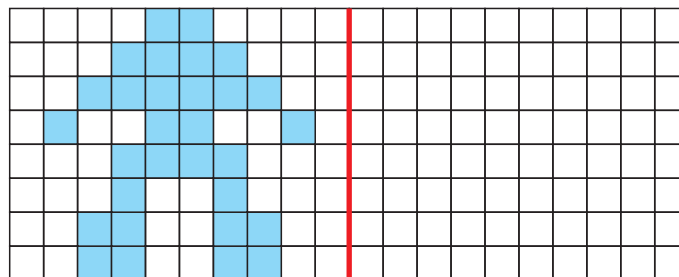
17. The cost of printing 800 pages is ₹400. Find the cost of printing 500 similar pages.

18. Find the area of the given figures. Area of 1 small square is 1cm^2 .



19. Form the mirror image of the given figure by shading the boxes on the other side of the mirror. Name the picture formed.

Mirror



20. The table shows the monthly income of a family for 5 years. Draw a bar graph to represent the data.

| Years | Monthly Income |
|-------|----------------|
| 2005 | ₹30000 |
| 2006 | ₹45000 |
| 2007 | ₹60000 |
| 2008 | ₹75000 |
| 2009 | ₹80000 |

ENGLISH PRACTICE

Reading is fun and informative! Read a book of your choice during the summer vacation. Also, read a newspaper daily, for 10 minutes and find 3 words that you haven't read before. Form your own 'Vocabulary Book' by writing the words with their meanings and frame sentences using the same words.