

DAV CENTENARY PUBLIC SCHOOL

PASCHIM ENCLAVE NEW DELHI-87

CLASS 10

HOLIDAY HOMEWORK 2022-23

English

1. Design a meme or comic strip on energy conservation with catchy English lines.
2. Study about any one freedom fighter who contributed in India's struggle for Independence. Make a timeline depicting all important events of his/her life. Also write a paragraph about the motivation, inspiration you get from that national hero. Support your timeline and paragraph with some relevant and interesting pictures.
3. Design character webs on the basis of your reading of the following chapters of your supplementary reader:
 - Triumph of surgery
 - Thief's story
 - Midnight visitor

Science

THEME TO BE EXPLORED IN THE PROJECT :

'AZADI KA AMRUT MAHOTSAV' – 75 YEARS OF INDIAN INDEPENDENCE

As India is going to complete 75 years of its independence this year, 'AZADI KA AMRUT MAHOTSAV' is a commemoration of 75 years of India's Independence. This Mahotsav is a festival of awakening of the nation; a festival of fulfilling the dream of good governance; and the festival of global peace and development. Like the history of the freedom movement, the journey of 75 years after independence is a reflection of the hard work, innovation, enterprise of ordinary Indians. India is still moving forward by strengthening democracy. India, rich in knowledge and science, is leaving its mark from Mars to the moon.

In your project work given below, you will be exploring and researching the above theme.

In the present scenario, when global energy consumption and the amount of greenhouse gases in the atmosphere are increasing continuously, it is very urgent for society to discover alternative sources of energy which are sustainable, clean and abundant.

Students are required to make a project report on "**Alternative sources of energy - green and clean**" comprising the following information.

- Basic introduction of alternative sources of energy.
- Biomass, Hydropower, geothermal, wind, solar, Tides as potential sources of energy.
- New initiative / Trends -
 - Blended petrol
 - Electric vehicles

Note : Project report must be supported with pictures.

Social Science

Hydrogen policy in India



The mission aims to make India a green hydrogen hub and help to meet its climate targets. It targets production of five million metric tonnes per annum (MMTPA) of green hydrogen by 2030 and the related development of renewable energy capacity.

- On the basis of this prepare a report with the help of case study
- Also suggest any other TWO ALTERNATIVES towards cleaner energy sources

Azadi ka Amrit mahotsav

Design a digital Infographic poster on the women freedom fighters of Non- Cooperation Movement and Civil Disobedience Movement.

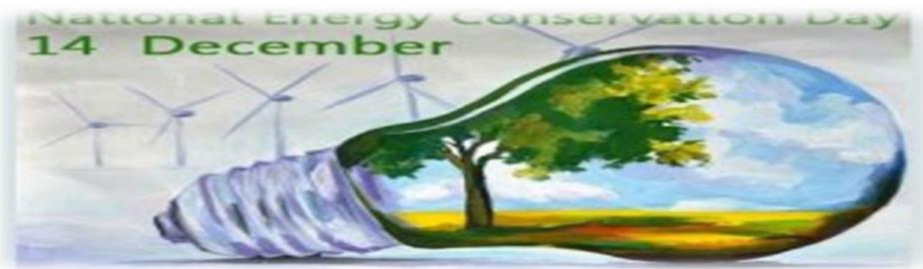
Hindi



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परियोजना कार्य शीर्षक (Project Work Title):- ऊर्जा

शीर्ष पंक्ति(Tag Line): ऊर्जा से है जीवन संभव, चलो करें इसका संरक्षण



विद्यार्थी का नाम

कक्षा एवं विभाग :.....

- Page -2- Index
- Page -3- ऊर्जा संरक्षण पर कविता/quotes
- Page -4 से 6- ऊर्जा संरक्षण : समस्या, आवश्यकता, समाधान
- Page -7- ऊर्जा संरक्षण - विज्ञापन निर्माण
ऊर्जा मंत्रालय द्वारा समाचार-पत्र हेतु एक आकर्षक विज्ञापन का निर्माण कीजिए ।
- Page -8 से 9- सूचना लेखन - कमीशनर का नोटिस तथा काउंसिल का नोटिस
(‘डायरी का एक पन्ना’ पाठधारित AIL गतिविधि)
- शीर्षक पृष्ठ-आज़ादी का अमृत महोत्सव
- Documentary निर्माण- देशभक्ति गीतों का संकलन, फिल्म का नाम, ऐतिहासिक पृष्ठभूमि सहित
- मूल्यांकन बिंदु - प्रस्तुतीकरण, रचनात्मकता एवं मौलिकता

आजादी का अमृत उत्सव!

Dear Students,

15th August, 2022 will hold a very special place in every Indian's heart since it will mark 75 years of our country's independence. The way our freedom fighters came together to fight for independence, us teachers would also want you to unite and make an interesting game that showcases the major events that have taken place throughout these 75 years(1947,1948,1949.....2022) and incorporate it with mathematics. Here's how you can do the same:

Task 1: Gather different events throughout the freedom struggle, whether positive or negative. (Eg. 1951: India became a republic, 1962: Indo-China war) Collect at least 25 such events.

Task 2: Arrange these events in chronological order on a 9x9 game board with 81 squares according to the year they occurred. Note that no two events should belong to the same year. Each positive event will gain you points if you land on it, but if you land on a negative event, you will lose points. These points must be decided by the group itself.

Task 3: Create a deck of 50 cards with different mathematical questions from your Grade 10 syllabus. The answers of these cards must range from 1 to 10. These cards will act as a substitute to dice. When playing, if the answer is correct the player must move the same number of steps as the answer, if the answer is wrong then the player remains where he/she was before. Make sure that each number has equal probability of occurring.

Task 4: 5 squares on the game board will remain empty and will be used as special slots. These slots will have a different deck of 20 cards containing a set of more difficult math questions whose answers will range from 15 to 20. If answered correctly, the player will gain the same points as the answer of the question. If the player fails to answer correctly, they shall face penalty and move the same number of steps backward as the answer. Make sure that each number has equal probability of occurring.

An example of how the board may look is shown below:

68 2015	69 2016	70 2017	71 2018	72 2019	★	73 2020	74 2021	75 2022
67 2014	★	66 2013	65 2012	64 2011	63 2010	62 2009	61 2008	60 2007
52 1999	53 2000	54 2001	55 2002	★	56 2003	57 2004	58 2005	59 2006
51 1998	50 1997	49 1996	48 1995	47 1994	46 1993	★	45 1992	44 1991
35 1982	36 1983	37 1984	38 1985	39 1986	40 1987	41 1988	42 1989	43 1990
★	34 1981	33 1980	32 1979	31 1978	30 1977	29 1976	28 1975	27 1974
18 1965	19 1966	20 1967	21 1968	22 1969	23 1970	24 1971	25 1972	26 1973
17 1964	16 1963	15 1962	14 1961	13 1960	12 1959	11 1958	10 1957	9 1956
0 1947	1 1948	2 1949	3 1950	4 1951	5 1952	6 1953	7 1954	8 1955

(The stars indicate the special slots. You can choose the positioning of the special slots yourself and place them however you please.)

Mathematics Interdisciplinary Project

"Less Than A Day's Coal" SOS From Delhi Amid Record Heat, Power Cuts

Power Crisis: Coal reserves at India's power plants have declined almost 17% since the start of this month and are barely a third of the required levels.

All India | Reported by Sharad Sharma, Edited by Akhil Kumar | Updated: April 29, 2022 12:37 pm IST



New Delhi: Amid a severe coal shortage across the country, Delhi power minister claims crucial power plants are left with less than a day of coal which can cause blackouts and lead to interruptions in crucial services like the metro and government hospitals.

In the wake of above news clipping, the following practice has its importance re-established.

“ELECTRICITY SAVED IS ELECTRICITY PRODUCED”

Electricity has made our daily chores easy and we are so used to many electric gadgets that we cannot imagine our life without them.

Let us try to understand this with some data:

TASK 1 Make a list of all the electric appliances in your home and mention their predicted power consumption in units per day in a tabular form.

TASK 2. Calculate the total predicted power consumption over 15 days of period.

TASK 3. Compare with the actual consumption shown through the electricity meter reading.

TASK 4. Justify the difference in the two consumptions.

Sanskrit

1 सौर ऊर्जा इति विषय अधिकृत्य एकं अनुच्छेदं लिखत अथवा पी. पी. टी. इत्यस्य निर्माणं कुरुत
(A4 SIZE इत्यस्य पत्रे)

2 पञ्चदश दिनानां समाचारलेखनम्

3 त्रयाणां कवीनां जीवनपरिचयः चित्र सहितम् (स्क्रेप पुस्तके)

4 स्वतन्त्रभारतस्य अमृतमहोत्सवस्योपरि पी. पी. टी. निर्माणम् ।

5 प्रदत्तकार्यप्रपत्राणि कुरुत ।

Computer

Information Technology (402)

- Make a Power Point Presentation on the topic Internet Security.

Artificial Intelligence (417)

- Do the worksheet discussed and given in class.