

DAV CENTENARY PUBLIC SCHOOL, PASCHIM ENCLAVE, NEW DELHI-87**SUMMER BREAK HOLIDAYS' HOMEWORK – CLASS VII****THEME – ENERGY CONSERVATION****ENGLISH**

- A. Search the internet to find different measures and steps taken by the people all around the world to conserve energy. Now make a beautiful **Collage** with a catchy slogan, on the topic 'ENERGY CONSERVATION'. Use A-4 size sheets.
- B. You are Meenu/ Manoj, Secretary of the Environment Club of your school. Your school is going to organize an Essay Writing Competition on the topic 'Use of Alternative Forms of Energy'. Write a **Notice** on the same in not more than 50 words to be put up on the school notice board giving all the necessary details.
- C. Prepare a self composed **Poem** on the given topic:
'Let's Conserve Energy'
The poem must be well written, original and with a motivating message. Students must use their creativity and imagination.
- D. One day there was no electricity due to power-shortage. During the hot summer, the whole day and night were spent without electricity. After a few hours, the generator/inverter also broke down. Now write a **Diary Entry** in not more than 200 words expressing your discomfort, realization of the need to save electricity and how you will save electricity in future.

SOCIAL SCIENCE

Group Activity on **Non-conventional sources of energy - For a Bright Future in India.** (5 students in each group]. Each group will make a powerpoint presentation on any one of the following subtopics:

- a) Solar Energy
- b) Bio-gas
- c) Geo-Thermal Energy
- d) Tidal Energy
- e) Wind Energy

PowerPoint Presentation must include 20 to 25 slides covering all aspects of Non-conventional sources of energy like:

- i) Mapping
- ii) Survey
- iii) Case-Study
- iv) Report

SCIENCE

Make a powerpoint presentation on topic 'Energy Conservation' (minimum 15 slides).The topic should cover the following points-

- 1) Sources of Energy : a) Renewable Sources b) Non-Renewable Sources
- 2) Future aspects: Showing future scenario of energy consumption.
- 3) Need of Energy Conservation.
- 4) Alternative Sources of Energy for conservation.

MATHEMATICS

In a project file:

1. Collect data on electricity requirement (in MU*), electricity availability (in MU) and surplus/shortage of electricity (in MU) for all the states of India for the year 2014-15.
(Refer to <http://cea.nic.in/reports/annual/lqbr/lqbr-2014.pdf>) Pg no. 13
2. For each of the electricity deficit state, find the percentage of shortage of electricity to the total requirement of electricity in the following format.

State	Electricity requirement (in MU)	Electricity availability(in MU)	shortage	Percentage of shortage , if there is shortage.
				$\frac{\text{Shortage /deficit}}{\text{Total requirement of electricity in the state}} \times 100$

3. Arrange the percentages of shortage of electricity of all the states in descending order.
4. Represent the electricity shortage percentage of first 10 states from the descending order in a bar graph.
5. Round off the electricity requirement of all the states to nearest thousands and then, find the average requirement of electricity for a state in India.
6. Suggest some ways by which a state can fulfill the excess demand of electricity. Also , suggest some ways by which we can save electricity. Paste pictures to illustrate.

***Note : 1 MU = 1 MEGA UNIT (one million units) and 1 unit = 1 kwh.**

HINDI

- 10 सुलेख लिखिए।
- बुजुर्ग हमारी धरोहर – विषय पर अनुच्छेद लिखिए।
- किसी नाटक में भाग लेने के अपने अनुभव को बताते हुए अपनी छोटी बहन को पत्र लिखिए।
- ऊर्जा संरक्षण – विज्ञापन निर्माण व दो व्यक्तियों के बीच बातचीत

SANSKRIT

स्वराणाम् कोशः निर्माणम्

छायाचित्रेण सह स्वपरिवारस्य विषये दश वाक्येषु अनुच्छेदं लिखत- (संस्कृते एव)