

SUMMER HOLIDAY HOMEWORK

THEME- ENERGY EFFICIENT APPLIANCES

CLASS V



As the saying goes, the Stone Age did not end because we ran out of stones; We transitioned to better solutions, the opportunities lies before us with energy efficiency and clean energy.

--Steven Chu.

Dear Parents,

The choices we make about how we use energy have environmental and economic impacts. There are many things we can do to use less energy and use it more wisely. These actions include both energy conservation and energy efficiency. Energy conservation is any action or behaviour that results in using less energy.

ENGLISH

Greetings students!

Summer Holidays are upon us and it's time to work, play and enjoy. During summers, we all use variety of machines like fans, coolers, air-conditioners and refrigerators. These appliances guzzle up a lot of energy and are ultimately finishing off the precious non-renewable resources of our planet. Hence, newer and more energy efficient machines are being developed. This summer let us explore these new energy efficient machines through our summer project. Happy Holidays!!!



Activity 1:

Write a blog about at least two new energy efficient machines, how they have developed over time and how their energy saving helps the planet.

Activity 2:

Write a poem or paragraph (of about 100 words) on the need to develop more energy efficient machines. This poem or paragraph should be written on a colourful chart paper and decorated suitably. For instance, the chart could be decorated with pictures of machines cut from newspapers and magazines. (All cutting activities to be done under guidance of elders at home).

Date of Submission 3rd July 2019.

हिंदी

गतिविधि -1

- नीचे दिए गए उदाहरण को देखकर ऊर्जा संरक्षण पर पोस्टर तैयार कीजिए और उस पर स्लोगन भी लिखिए । इस गतिविधि को आधे चार्ट पर पूर्ण कीजिए ।



गतिविधि- 2

- चित्रों सहित बल्ब से एल. ई. डी. तक की यात्रा का वर्णन 100 से 150 शब्दों में कीजिए । इस गतिविधि को ए-4 शीट पर पूर्ण कीजिए ।



जमा करने की तिथि - 4th July 2019

Mathematics

Activity 1:

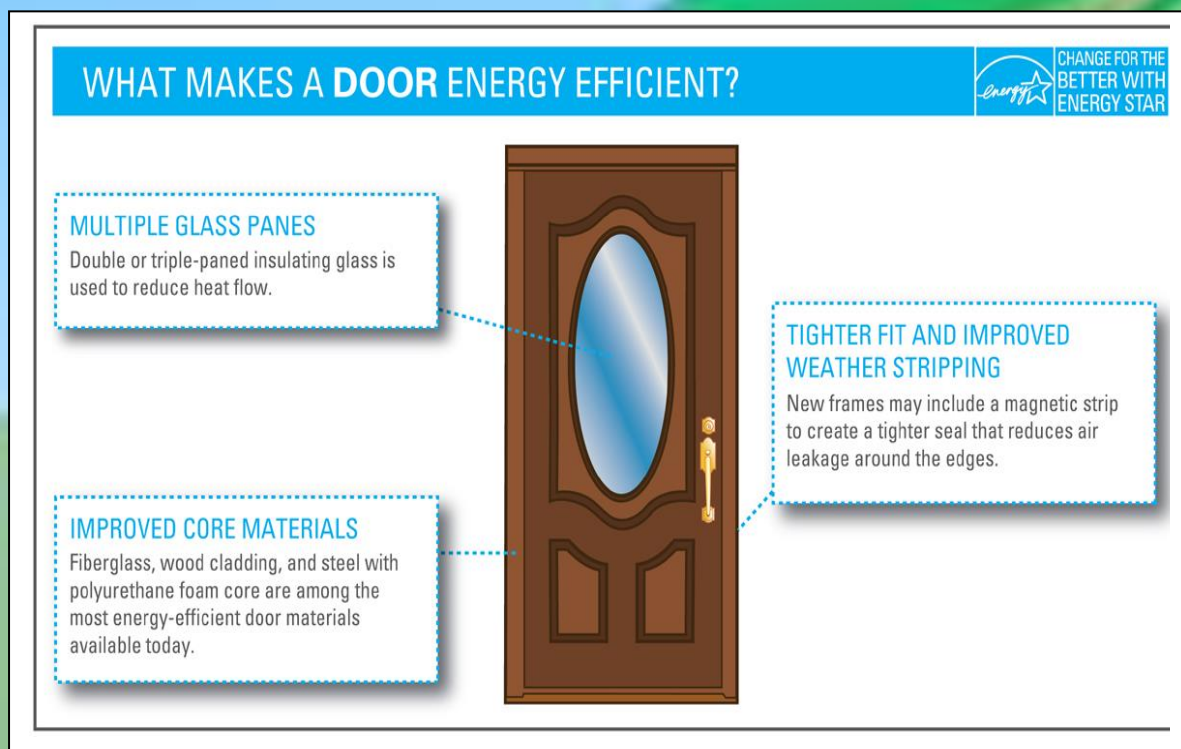
Paste the electricity bill of 5 consecutive months in your notebook and compare the metre reading for the selected months using a bar graph.



List few energy saving tips that can help you and your family members to reduce the electricity bill.

Activity 2:

Draw a model of an energy efficient appliance on a colourful A4 sheet and find out it's area.



Date of Submission 5th July 2019.

SCIENCE

Energy efficiency focuses on technologies that use less energy to perform the same tasks or the same amount of work. Buying a dryer that uses less energy is an example of energy efficiency. Drying clothes outside on sunny days is an example of energy conservation.

Appliances, machines, and electronic devices use about 29 percent of a typical household's energy, with refrigerators, freezers, clothes washers and dryers at the top of the list.

An energy efficient appliance will usually cost more, but it will save a lot of money in energy costs. An energy efficient model is almost always a better deal.

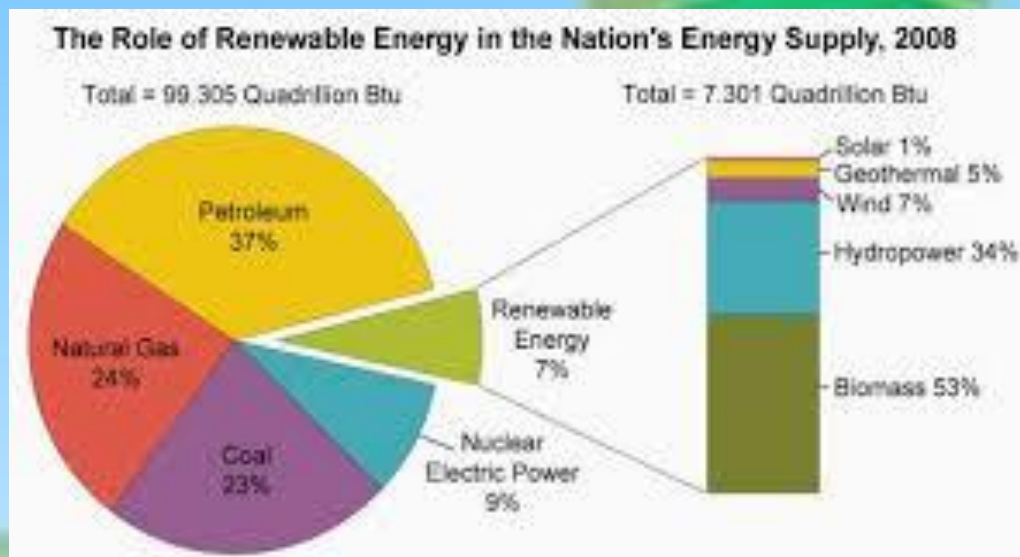
Activity 1:

What percentage of the nation's energy is provided by:

Non-renewables? _____

Renewables? _____

Draw a pi-chart on an A4 sheet to represent the same.



Activity 2:

Make a list of things your family can do to save energy and money.

Describe what you do on a typical weekend and how your weekend would be different if you had no electricity.

All the activities are to be done on colourful A4 sheet and to be submitted to respective teachers.

Date of Submission 8th July 2019.

Social Science

Activity 1:

This summer let us create a visual delight of marking the seven continents and 5 oceans on a paper plate.



The world's oceans are currently awash with man-made waste. Explore and write a small paragraph on an A4 sheet, how technologies can be used in cleaning oceans.

Activity 3:

Let us recreate a visual treat by marking the different landforms (Mountains, plains, plateaus, deserts) on a chart paper with the help of food grains used in cooking.



The Holiday Projects are to be submitted to respective teachers.

Date of Submission 9th July 2019.

ICT & ARTIFICIAL INTELLIGENCE

Activity 1:

Make a magazine cover page in MSWord on the topic “Use of energy efficient appliances to make environment green and clean” and mail the soft copy having name, class & section on the below given mail id-

bbpscomputerprimary@gmail.com

Activity 2:

Create a PPT on renewable sources of energy (Minimum four slides). mail the soft copy having name, class & section on the below given mail id-

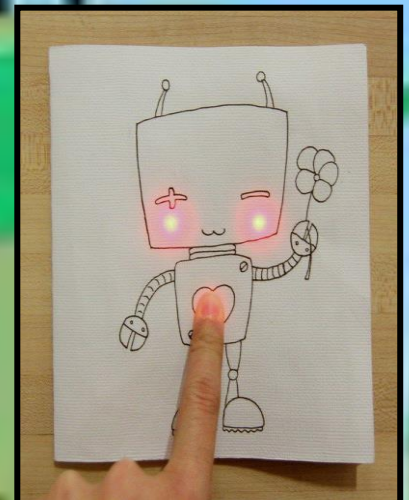
bbpscomputerprimary@gmail.com

Activity 3:

Use your imagination and prepare a glowing card using paper circuit. You can make a Smart home in which the light glows when someone is at the door!

This is an example of a glowing card in which the Robot blushes on touching its heart. The technique is simple. You need two LED's, copper wire/tape and a coin cell. Join them and see the magic.

Refer to www.cirkitree.com for step by step method of creating a paper circuit.



The Holiday Projects are to be submitted to respective teachers .

Date of Submission- 10th July 2019

RUBIK'S CUBE

To ensure that the young Rubik's cube Champions keep harnessing their talent in solving the puzzle completely in a jiffy, we propose to grade math lab activities on the basis of the criterion of **solving complete cube**.

You may refer to following videos for help.

- <https://www.quora.com/How-can-I-solve-Rubiks-Cube-in-less-than-a-minute>
- https://www.youtube.com/watch?v=OCSrLEINY_Q
- <https://www.youtube.com/watch?v=WqNoyRoE1KE>

