

COLUMBIA FOUNDATION SCHOOL

D – Block, Vikas Puri, New Delhi - 110018

Class - VI

Holiday Homework - (2019-2020)

Topic-WIND ENGERY & THERMAL ENGERY

Instructions:

Holiday homework for all the subjects is to be done in common file. (A-3 sheets complied together).

- 1. Make the cover page of the file attractive and decorate it with waste materials.
- 2. Prepare a pictorial presentation according to the topic.
- 3. Use waste materials for models. (e.g. Bangles, tetra packs, waste plastics, packaging materials, coconut shells, pencil shavings, dry leaves, etc.)

English

- 1. Collect information on the following points:-
 - (a) The first use of wind power in sailing the ships.
 - (b) Where were the wind mills used for the first time and how?
 - (c) How wind power is used to generate electricity In modern times.

Write an informative article in 150-200 words with relevant pictures in sequence.

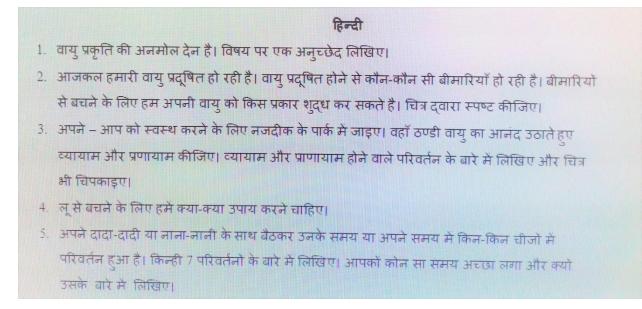
- 2. Gather information on thermal power:-
 - (a) What is thermal energy?
 - (b) Who discovered thermal power? (James Prescott joule)
 - (c) When was it first used and how?

Prepare a detailed report and paste relevant pictures.

- 3. Write a paragraph on:-
 - (a) Future of Wind energy in India (Roll No. 1-20)
 - (b) Future of Thermal power in India (Roll No. 21-39)
- 4. Research and find out more about a Malawian boy named William kamkwamba who built a wind turbine to save this town from famine. Prepare a researched documentary with associated pictures.
- 5. The most promising geothermal power plant in Puga valley, Ladakh. Search about it on internet and collect relevant pictures. Prepare a pictorial report on it.
- 6. Watch the documentary-"Windfall"- a documentary on wind turbines by Laura Israel and

Answer the following questions:-

- (a) What information you are able to gather after watching the documentary.
- (b) What is the purpose of Laura Israel behind making this documentary?



Science and S.St.

- 1. Prepare a Chart and a model for the following:-
 - (a) Make a working model of a wind turbine from cardboard (Roll no. 1-5)
 - (b) Running model on Wind energy (Roll no. 6-10)
 - (c) Model on thermal power plant (Roll no. 11-15)
 - (d) How to convert heat energy into electricity (Roll No. 16-20)
 - (e) Make a model of wind mill farms (Roll No 21-25)
 - (f) Make a steam generator light (Roll no. 26-30)
 - (g) Make a geothermal model with water & candle (Roll no. 31- 37)
 - (h) Make steam power generator (Roll no. 38-42)
- 2. Mark top 5 largest wind farms or wind mill parks in India.
- 3. What are the advantages and challenges faced by wind industry?

Maths

- 1. Practice 20 sum each based on-
 - (a) Six digit number for addition
 - (b) Five digit numbers for subtraction
 - (c) Four digit number for multiplication & division.
- 2. Learn tables 2 to 20
- 3. Complete Ch-1 and 2 from Drill Mathematics.