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?

हिन्दी

1. वायु प्रकृति की अनमोल देन है। विषय पर एक अनुच्छेद लिखिए।
2. आजकल हमारी वायु प्रदूषित हो रही है। वायु प्रदूषित होने से कौन-कौन सी बीमारियाँ हो रही है। बीमारियों से बचने के लिए हम अपनी वायु को किस प्रकार शुद्ध कर सकते है। चित्र द्वारा स्पष्ट कीजिए।
3. अपने – आप को स्वस्थ करने के लिए नजदीक के पार्क में जाइए। वहाँ ठण्डी वायु का आनंद उठाते हुए व्यायाम और प्रणायाम कीजिए। व्यायाम और प्राणायाम होने वाले परिवर्तन के बारे में लिखिए और चित्र भी चिपकाइए।
4. लू से बचने के लिए हमें क्या-क्या उपाय करने चाहिए।
5. अपने दादा-दादी या नाना-नानी के साथ बैठकर उनके समय या अपने समय में किन-किन चीजों में परिवर्तन हुआ है। किन्ही 7 परिवर्तनों के बारे मे लिखिए। आपको कोन सा समय अच्छा लगा और क्यों उसके बारे में लिखिए।

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.