

SAINIK SCHOOL CHANDRAPUR

ACADEMIC SESSION 2022-23

WINTER VACATION

PROJECT WORK

SUBJECT -SCIENCE

CLASS-8TH

INSTRUCTION: - PREPARATION OF ALL THREE GIVEN PROJECTS ARE COMPULSORY AND NECESSARY

- 1. PROKARYOTE VERSUS EUKARYOTE**-To compare prokaryotic and eukaryotic cells with this artistic project innovatively.
- 2. Make static/working model of fighter plane-SU-30MKI & BRAHMOS**
- 3. To make a working model of ‘wind turbine from cardboard’**

ASSIGNMENT-8TH

1. COAL AND PETROLEUM- “THE PUZZLING LETTERS”

Write the answers to the clues given below in the space provided.

- A gas produced by the anaerobic degradation of dead plants and animals. _ _ _ G _ _
- An environment friendly gaseous fuel used in heavy as well as light vehicles. _ _ _
- A fuel most commonly used in lighter vehicles like scooter, cars and motorcycles. _ _ T _ _ _
- An exhaustible industrial fuel used in thermal power plants also. C _ _ _
- A gas produced by burning of fuels. _ A _ _ _ _ _ _ _ _ _

Pick out the letters in the square and unscramble them to find the answer to the riddle given here.

I am present in all bodies, living or dead.

I am called 'element of life', you can find me in bread.

The burning of fuels adds my oxide in air,

Excess release of which is not fair.

2. CHEMICAL EFFECT OF CURRENT-WHAT MAKES WATER?

Materials Required

Two used cells (torch cells), a 9V battery, two metre copper wire, plastic container, hammer, plaster of Paris, two empty test tubes of equal size.

What to do:

1. Remove the carbon rods from the used cells. (Ask an adult to help you with this)
2. Make holes at the bottom of the plastic container to fit the carbon rods.
3. Use plaster of Paris paste (by mixing it in water) to block leakage of water where the carbon rods are fixed.
4. Fill the bowl up to 3/4th with water.
5. Connect the wire to the ends of the carbon rods below the plastic container as shown.
6. Fill two test tubes with water.
7. Carefully invert them over the carbon rods, one on each rod. This must be done in such a way that water does not escape out of the test tube and no air enters the test tube.
8. Now connect the two carbon rods to the 9V battery.
9. Watch carefully at the two rods. What do you notice?

*******Make your observation on record notebook**