

PROJECT WORK-1

HEAT

Some items to be given as project work for class-10 students.

They can do any one of the following. The report should be in at least two A4 pages.

1. Place a Pyrex funnel with its mouth-down in a sauce pan full of water, in such a way that the stem tube of the funnel is above the water or pointing upward into air. Rest the edge of the bottom portion of the funnel on a nail or on a coin so that water can get under it. Place the pan on a stove and heat it till it begins to boil. Where do the bubbles form first? Why? Can you explain how geyser works using this experience.
2. Collect information about working of geyser and prepare a report.
3. Assume that heat is being supplied continuously to 2 Kg of ice at -5°C . You know that ice melts at 0°C and boils at 100°C . Continue the heating till it starts boiling. Note the temperature every minute. Draw a graph between temperature and time using the values you get. What do you understand from the graph? Write the conclusions.
4. Collect the information about specific heat that how it is useful in our day to day life.
5. In which places dew is formed. Collect the information about why the dew formed in such places and what are the circumstances or weather conditions required to it.
6. Collect the information about evaporation in daily life. Report any 10 situations.
7. Water is used as coolant. Suggest any ten examples to support this. Give reason.