**SAINIK SCHOOL GOPALGANJ**

**SUMMER VACATION PROJECT/ APPLICATION BASED ASSIGNMENT**

**CLASS IX SUB: SCIENCE**

**Learning outcomes**

1. Know and understand the Evaporation, transpiration water cycle and cellular and molecular existence
2. Compare two important processes evaporation and boiling
3. Understand the advantages and disadvantages of evaporation and their applications in our daily lives
4. To critically analyse the various factors affecting rate of evaporation
5. Critically analyse that why evaporation is important for survival of life on earth

Evaporation and transpiration are two very important phenomenon. They maintain the climatic condition and it also help in the formation of cloud. As rain is the ultimate source of water on the earth, underground water also gets recharged due to rain. Evaporation plays a vital role to maintain the body temperature of living organisms. Also evaporation forms an important industrial process in obtaining salt, textile industries and chemical factories. Life is able to sustain on the earth due to constant circulation of water on earth called as water cycle.

**Complete a project covering the following aspects on evaporation:**

1. Describe five applications of evaporation from your daily lives like cooling effect of desert coolers and cooling of water in earthen pot etc and explain.
2. Describe the role of evaporation in industries such as textile, food and dairy products, pharmaceutical industries.
3. Explain how the life originated from water resources. Explain on the basis of cellular existence.

**Hint:** Based on concept of fundamental unit of Life

1. Also Explain the existence of life on molecular basis.

**Hint:** Based on concept of fundamental unit of Life

You can consult net or reference books, collect data, draw graphs or paste pictures from old magazine or newspapers to complete your assignment.