**SAINIK SCHOOL GOPALGANJ**

**SUMMER VACATION PROJECT/ APPLICATION BASED ASSIGNMENT**

**CLASS VII SUB: SCIENCE**

**Learning outcomes**

1. Know and understand the terms nutrients autotrophs, heterotrophs and parasite
2. Compare autotrophic and heterophic nutrition
3. Understand the need of insectivores plants in nitrogen deficient soil
4. To critically analyse that sun is the ultimate source of energy
5. Critically analyse that why spoilage of food increases during rainy season

**Food is the source of energy for all living organisms. Different type of nutrients is present in food such as carbohydrates, proteins, vitamins, minerals etc. These components are necessary for living organisms to survive. Plants produce their own food whereas animals do not produce their own food. We directly or indirectly depend upon plants for food. Complete a project covering following aspect mentioned below:**

**ACTIVITIES**

**a**. To show that sunlight is necessary for photosynthesis.

**b.** To observe the fungus bread mould in bread.

**c.** Try growing a sweet potato just in water. Describe your experiment and observations

**You can complete your project by answering the following question:**

1. Collect the data of animals and plants from your surroundings indentify and classify them on the basis of mode of nutrition.
2. Describe how the concentration of carbon dioxide and oxygen is maintained in our atmosphere.
3. How the fertilizers and manures provided in fields by farmers are being absorbed by plants?
4. Find out how the nutrients are replenished in the soil after being consumed by the plants.

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