



## PROJECT WORK

### 1. Determine the universality of variations by studying thumb impressions in a given population

- Collect around 15 – 25 thumb impressions from within the families of your area or among classes of your school.
- Identify and compare the occurrence of the general patterns like circular (whorls), loops and arches. Record your results in the form of 'Bar diagram' using frequencies of the pattern collected in a graph sheet.
- Eventhough many of them shared the same pattern of imprints, no two imprints were the same.

S. No	Pattern	No. of imprints
1	Whorls	
2	Loops	
3	Arches	



### 2. Study the effect of a local industry on the environment

- Select an industry in your area.
- Take a detailed note of the source of energy used, raw materials (local or imported), product formed etc.,
- List the possible types of pollutants released by the industry(air/water/soil)
- Check the safety measures undertaken by the management to comply with the regulations set by the Pollution Control Board

### 3. Study the ecological role of some insects and birds in a given locality

- Select an area in school or neighbourhood to observe insects and birds.
- Study their role as pollinator, agent in seed dispersal, vector for transmission of disease, predator, prey etc.,

### 4. Visit to a zoological park/wildlife sanctuary in your locality

- Observe the variety of birds and animals in the zoo.
- Tabulate based on the status – endemic, endangered, abundance etc.,

### 5. Visit to a nearby aquatic habitat

- Select a nearby waterbody (lake or pond).
- Observe the aquatic fauna and record your findings.
- Physico – chemical factors like pH, temperature, turbidity, salinity can also be noted.