

REPRESENTATION OF GEOGRAPHICAL FEATURES**• Maps**

- Use of colours on Topographical sheets [blue – water body, red- settlements, yellow- agriculture, brown – high relief, green – forests]
- Use of scales for measurement – types of scales[Representative Fraction, Linear scale]
- Small Scale Map and Large Scale Map
- Measuring distance on the map using scales [straight line, curved line]
- Conventional symbols [based on topographical sheets, Survey of India]

Major Landforms and Water Bodies**• Types of landforms**

- **Continents** (Asia, Africa, North America, South America, Antarctica, Europe, Australia)

• Mountains –

Fold Mountain – formation , Old and young fold mountain, examples

- **Block Mountain** – Formation, examples

- **Volcanic Mountain** – Formation and example

• Importance of mountains

- **Plateaus – Types of plateaus** (Intermontane, Continental plateaus, Lava Plateaus) and their example, Importance of plateaus

- **Plains** – formation, distribution of plains in the world [plains of North America, Gangetic plains of India], Importance of plains

- **Landforms and People** – impact of landforms on the life of people [comparison between life in the mountains and life in the plains]

Class VII

- **Major Water Bodies**
- **Oceans, seas, lakes and rivers**
- **Oceans** – Pacific, Atlantic, Indian, Arctic and Southern ocean; their characteristics and importance.
- **Seas** – Definition and examples [Bering sea, Caribbean sea, North sea, Black sea, Caspian sea, Aral sea, Arabian sea, Red sea and Dead sea.
- **Gulfs and Bays** – Difference between gulfs and bays
- **Straits** – definition and example
- **Rivers** – definition of Source, mouth of the river
- **Lakes** – Inland seas and examples

STUDY OF CONTINENTS : AUSTRALIA, AFRICA AND ANTARCTICA

- **Australia**
 - Location, boundaries, political divisions [countries and their capitals],
 - physical features (The Great Barrier Reef, The Great Artesian Basin)
 - Locating the above mentioned on the map.
 - Case Study – Sheep Rearing in Australia
- **Africa**
 - Location, boundaries, political divisions [countries and their capitals], major physical features.
 - Locating the above mentioned on the map.
 - Climate, Natural Vegetation and Wildlife
 - Natural Resources and people
 - Case Study – i) Egypt: The gift of Nile ii) Bushmen of the Kalahari iii) Cocoa Cultivation in Ghana
- **ANTARCTICA**
 - Location, boundaries
 - physical features

Class VII

THE ATMOSPHERE

- Composition of the atmosphere
- Structure of the atmosphere [Troposphere, Stratosphere, Ozone layer, Thermosphere, Mesosphere, Exosphere]
- Greenhouse Effect [meaning and causes]
- Global warming – Causes of ozone depletion [Greenhouse gases, deforestation, burning of fossil fuels] Impact of Global warming – [melting of ice, sea level rise, changing patterns of distribution of precipitation and temperature, etc.]
- Ways to reduce global warming.

WEATHER AND CLIMATE

- Elements of weather [Temperature, Atmospheric pressure, humidity, precipitation [rain, dew, hail, snow], winds, cloud [different types of clouds]
- Difference between Weather and Climate
- Weather instruments – Thermometer, rain gauge, barometer, hygrometer, anemometer and wind-vane
- Green House Effect
- Ozone Depletion
- Global Warming – Causes , effect and Prevention

WEATHERING AND SOIL FORMATION

- Types of rocks [Igneous, Metamorphic, Sedimentary] formation, examples.
- Weathering – meaning, factors affecting weathering, types of weathering [mechanical, chemical, biological], soil formation as a result of weathering.
- Soil Profile – importance of soil conservation, methods of soil conservation

Class VII

INDUSTRIES

- Need for industries in the world
- Types of industries [large scale, small scale, cottage industries, agro-based and mineral based industries]
- Factors related to establishment of an industry
- Important industries of the world [Iron and Steel, Cotton Textile, Information Technology, Sugar Industry, Ship building, Fishing, Automobile, important centres of these industries and their location on the world map.
- Pollution due to industries and its prevention.

OUR EARTH AND THE SOLAR SYSTEM

- The Universe, stars, constellations, the solar system
- Earth – our planet
- Other planets
- Satellites, asteroids, meteors. Meteoroids, comets

