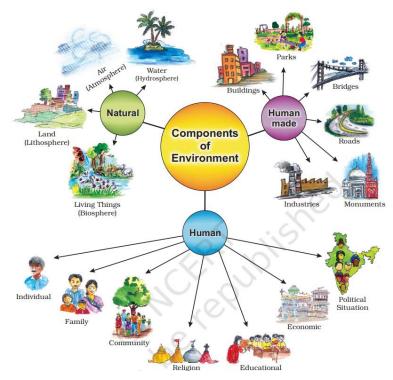
Chapter – 1: Environment

- After long vacation Ravi went back to school noticed only playground dug up
- Ravi very sad all the grass, flowers and beauty of nature gone new building set up
- Principal also noticed said the environment is changing
- Children asked what is environment
- Teacher told them all your surroundings
- Teacher told them some made by nature mountains, rivers, forests some made by human roads, cars, books
- Children wondering why is environment changing
- Teacher told them because of our needs, we are modifying and sometimes destroying our environment



Everything that surrounds us – environment – combination of human made and natural – biotic and abiotic

Natural environment

- Land, water, air, plants, animals everything environment
- Domains of earth –
- Lithosphere
 - Solid crust or solid top layer
 - o Made of rocks and minerals covered with thin layer of soil
 - Various landforms mountains, plateaus, plains, valleys over the continents and ocean beds
 - o Provides forests, grasslands, agriculture land, human settlements, mineral wealth
- Hydrosphere
 - Various sources of water

- o Different water bodies rivers, lakes, seas, oceans
- Essential all living beings
- Atmosphere
 - o Thin layer around earth
 - o Gravitational force holds it in place
 - o Protects from harmful rays and heat
 - o Lots of gases, dust and water vapour
 - o Change in atmosphere change in weather and climate
- Biosphere
 - All three domains together present here

What is ecosystem?

- Children discussing at an NCC camp
- One says heavy downpour (rainfall) reminds him of his hometown
- Other says no rainfall in his hometown only sand and stones and some animals like camel, snakes, insects
- Children wondered why do animals, vegetation, life of people vary from place to place?
- Plants, animals, human beings depend on each other and surroundings ecosystem
- Ecosystem large rain forest, grasslands, desert, mountains, lake, river, ocean, small pond

Human environment

- Human beings interact with environment and modify it
- Early humans adapted to the nature
- Simple life needs nature around them
- With time needs grew human learns new ways use and change environment
- Started growing crops, domesticate animals, settled lives
- Wheel invented extra food produced barter system started trade started commerce developed
- Industrial revolution large scale production transportation improved
- Information revolution communication improved
- Watermelon in summer roasted peanuts in winter maintain balance between nature and human environment
- Humans learn to live and use environment harmonious way