Appendix B

List of six Chapters for which Instructional Strategy has been developed

Name of the chapters	Motion, Force and Speed	Levers	Water	Measurement	Reflection of Light	Curved Mirrors

Chapter: Motion, Force and Speed

- Concept of motion
- Types of motion (Circular motion or rotational motion, periodic motion, rectilinear motion, motion along curved path)
- Concept of speed
- Concept of force
- Various effects of force
- Types of force (muscular force, magnetic force, gravitational force, electrostatic force and frictional force)
- Advantages and disadvantages of frictional force

Chapter: Levers

- Concept of lever
- Parts of lever
- Principle of lever
- Types or classes of lever
- Examples of each type of lever

Chapter: Water

- Physical properties of water
- Chemical properties of water
- Concept of solvent, solute and solution
- Difference between hard water and soft water
- Different methods for removal of hardness of water
- Different methods of purifying water
- Pollution of water
- Remedies for preventing pollution of water

Chapter: Measurement

- Measurement of mass
- Measurement of weight
- Measurement of volume
- Measurement of volume of a solid having regular geometrical shape
- Measurement of volume of a solid substance of irregular shape which is insoluble in water and sinks in water
- Measurement of volume of a solid substance of irregular shape which is insoluble in water and floats in water
- Density

Chapter: Reflection of light

- Reflection of light
- Laws of reflection
- Regular reflection
- Irregular reflection
- Formation of image by a plane mirror

- Characteristics of image formed by a plane mirror
- Multiple reflection
- kaleidoscope

Chapter: Curved Mirrors

- Curved mirrors
- Types of curved mirrors
- Difference between images formed by concave and convex mirror
- Uses of concave and convex mirrors