

LIST OF FIGURES

Figure No.	TITLE OF THE FIGURE	Page No.
1.1	Interrelated and expanding nature of processes and products of science	5
1.1.1	Further bifurcation of the processes and products of science	6
1.2	Cognitive understanding scale	21
1.3	Interrelationships and directions of the different aspects of learning	23
1.4	Linking of ideas to new experiences	24
3.1	Overview of the research design	83
3.2	Overview of the development of instructional strategy	86
4.1	View of the toy based on principle of magnetic levitation	107
4.2	Cardboard for finding the characteristics of image in a plane mirror	132
4.2.1	Characteristics of image in a plane mirror	133

LIST OF PLATES

Plate No.	TITLE OF THE PLATE	Page No.
4.1	Students involved in measuring the volume of the given object. At present measuring the length of the given cassette cover and matchbox	115
4.2	Students involved in measuring volume of the given objects	115
4.3	Group measuring volume of the given liquid	116
4.4	Girl involved in measuring mass of the onions	116
4.5	Boy measuring the mass of the given lock	116
4.6	Boy measuring the mass of the given object box	116
4.7	Boy finding out the least count of the spring balance	116
4.8	Group involved in measuring volume of the given liquid	116
4.9	Girls involved in measuring mass of the given object	117
4.10	Girl involved in measuring mass of the given purse	117
4.11	Boys involved in measuring mass of the given objects	117
4.12	Girl involved in measuring mass of the given lock	117
4.13	Group 1 finding out the volume of the irregular shaped stone	118
4.14	Group 2 and 3 involved in finding volume of the given stone	118
4.15	Group 4 and 5 involved in finding volume of the given stone	118
4.16	Group 6 involved in finding volume of the given stone	118
4.17	Group 7 involved in finding volume of the given stone	119
4.18	Group 8 involved in finding volume of the given stone	119