

Contents

Foreword.....	4
Lesson Plan 1: Variation.....	6
Lesson Plan 2: Biomechanics	9
Lesson Plan 3: Renewable energy resources	14
Lesson Plan 4: Build a space dictionary	16
Lesson Plan 5: Vectors	18
Lesson Plan 6: 3-D geometry (1).....	21
Lesson Plan 7: 3-D geometry (2).....	24
Lesson Plan 8: 2-D geometry.....	27
Lesson Plan 9: Problems of roofs	31
Lesson Plan 10: Activities developing the spatial imagination	46
Lesson Plan 11: Waves	64
Lesson Plan 12: Phenomena regarding reflection and refraction of waves	69
Lesson Plan 13: Consecutive numbers	73
Lesson Plan 14: Painted cube	75
Lesson Plan 15: The enhanced greenhouse effect and global warming	78
Lesson Plan 16: Capacitor discharge	81
Lesson Plan 17: Games with fractions.....	85
Lesson Plan 18: Teaching and learning basic functions using spreadsheet models (EXCEL).....	88
Lesson Plan 19: How is it being a physics teacher? Meteorology.....	91
Lesson Plan 20: Chemical reaction.....	94