

INDEX

Unit		Page
TERM 1	LIFE AND LIVING	9
Unit 1	BIOSPHERE	9
	Exercise 1	9
	Exercise 2	10
	Practical investigation 1	12
	Exercise 3	13
	Mind maps of Unit 1	16
Unit 2	BIODIVERSITY	17
	Activity 1	17
	Activity 2	18
	Practical task 1	18
	Exercise 4	19
	Exercise 5	21
	Exercise 6	22
	Mind maps of Unit 2	24
Unit 3	SEXUAL REPRODUCTION OF ANGIOSPERMS	25
	Activity 3	25
	Exercise 7	27
	Practical investigation 2	29
	Exercise 8	30
	Mind maps of Unit 3	33
Unit 4	HUMAN REPRODUCTION	35
	Activity 4	35
	Activity 5	36
	Activity 6	36
	Activity 7	37
	Exercise 9	38
	Mind maps of Unit 4	40
Unit 5	VARIATION	41
	Practical task 2	41
	Activity 8	45
	Activity 9	46
	Exercise 10	47
	Mind maps of Unit 5	48
	Term test	49
TERM 2	MATTER AND MATERIALS	55
Unit 1	PROPERTIES OF MATERIALS	55
	Practical investigation 3	55
	Exercise 11	55
	Practical investigation 4	56
	Exercise 12	56
	Practical investigation 5	57

	Practical investigation 6	58
	Exercise 13	58
	Exercise 14	59
	Mind maps of Unit 1	60
Unit 2	SEPARATION OF MIXTURES	61
	Practical investigation 7	61
	Practical investigation 8	61
	Practical investigation 9	62
	Exercise 15	63
	Activity 10	64
	Exercise 16	65
	Mind maps of Unit 2	66
Unit 3	ACIDS, BASES AND NEUTRAL SUBSTANCES	67
	Practical task 3	67
	Practical investigation 10	68
	Exercise 17	69
	Mind maps of Unit 3	71
Unit 4	THE PERIODIC TABLE	73
	Activity 11	73
	Activity 12	74
	Activity 13	75
	Activity 14	76
	Exercise 18	77
	Mind maps of Unit 4	78
	Term tests	79
TERM 3	ENERGY AND CHANGE	83
Unit 1	SOURCE OF ENERGY	83
	Activity 15	83
	Case study 1	83
	Activity 16	84
	Activity 17	84
	Case study 2	84
	Case study 3	85
	Exercise 19	86
	Mind maps of Unit 1	87
Unit 2	POTENTIAL AND KINETIC ENERGY	91
	Activity 18	91
	Activity 19	92
	Activity 20	92
	Exercise 20	92
	Mind maps of Unit 2	94
Unit 3	HEAT TRANSFER	95
	Practical investigation 11	95
	Practical task 4	96

	Activity 21	96
	Practical task 5 (demonstration)	97
	Practical investigation 12	98
	Exercise 21	99
	Mind maps of Unit 3	100
Unit 4	INSULATION AND ENERGY SAVING	101
	Activity 22	101
	Practical investigation 13	101
	Activity 23	102
	Project	102
	Project	102
	Exercise 22	103
	Mind maps of Unit 4	104
Unit 5	ENERGY TRANSFER	105
	Exercise 23	105
	Mind maps of Unit 5	108
Unit 6	NATIONAL ELECTRICITY GRID	109
	Activity 24	109
	Activity 25	110
	Activity 26	110
	Exercise 24	111
	Term test	113
TERM 4	EARTH AND BEYOND	117
Unit 1	RELATIONSHIP OF THE SUN TO THE EARTH	117
	Practical investigation 14	117
	Activity 27	118
	Practical task 6	118
	Exercise 25	118
	Mind maps of Unit 1	120
Unit 2	RELATIONSHIP OF THE MOON TO THE EARTH	121
	Exercise 26	121
	Practical task 7	122
	Exercise 27	122
	Mind maps of Unit 2	125
Unit 3	DEVELOPMENT OF ASTRONOMY	127
	Activity 28	127
	Activity 29	128
	Activity 30	128
	Exercise 28	129
	Mind maps of Unit 3	131
	Term test	132