

# CONTENTS

<i>List of figures</i>	xviii
<i>List of tables</i>	xxii
<i>List of photographs</i>	xxiv
<i>About the authors</i>	xxv
<i>Acknowledgements</i>	xxvii
<i>Use of language</i>	xxix
<i>Preface</i>	xxx
<b>Section 1 Introduction to educational research</b>	<b>1</b>
1 Introduction	3
2 Perspectives and philosophy	26
3 Sociocultural context	45
4 Research design stages	66
<b>Section 2 Initial considerations</b>	<b>81</b>
5 The literature review	83
6 Research designs	113
7 Ethics	137
8 Specifying your research focus	162
<b>Section 3 Methodological considerations, methods and analysis</b>	<b>187</b>
9 Quantitative considerations and methods	189
10 Qualitative considerations and methods	222
11 Mixed methodologies and mixed approaches	244



12 Quantitative analysis and presentation	259
13 Qualitative analysis and presentation	298
<b>Section 4 Engaging with your own research</b>	<b>327</b>
14 Structuring the research	329
15 A return to the beginning	344
<i>Glossary</i>	363
<i>References</i>	375
<i>Index</i>	395



# EXPANDED CONTENTS

<i>List of figures</i>	xviii
<i>List of tables</i>	xxii
<i>List of photographs</i>	xxiv
<i>About the authors</i>	xxv
<i>Acknowledgements</i>	xxvii
<i>Use of language</i>	xxix
<i>Preface</i>	xxx

## **Section 1 Introduction to educational research**

<b>1 Introduction</b>	<b>3</b>
Chapter overview	4
Introduction	4
The quest allegory	5
Framework for this book	6
Starting with you	7
Uniqueness of educational research as a discipline	11
Case study 1: Academic theory	12
Case study 2: Applied solution	13
Case study 3: Hybrid approach	14
Contemporary issues and trends in educational research	15
Understanding the importance of the cultural context	17
So why is educational research needed?	19
The transformative effect of educational research	22
Lessons learnt the hard way	22
Lesson 1: Your supervisor may not be aligned to your interests	23
Lesson 2: Don't be swayed by what appears difficult	23
Lesson 3: Don't be put off by perceived 'experts'	23
Core points	24
Checklist for your understanding	24
Further reading	25



2	Perspectives and philosophy	26
	Chapter overview	27
	Introduction	27
	The quest allegory	29
	Philosophy as truth	30
	Perspectives and philosophy within education	32
	Perspectives and philosophy within research (paradigms)	36
	The positivist paradigm	37
	The interpretivist paradigm	38
	The eclectic paradigm (or pragmatic paradigm, or reconciliationist paradigm)	40
	Your educational research philosophy	40
	A return to the candle analogy	41
	Contemporary issues and trends in educational research	41
	Lessons learnt the hard way	42
	Lesson 4: Read widely	42
	Lesson 5: Follow your own way	42
	Core points	43
	Checklist for your understanding	43
	Further reading	44
3	Sociocultural context	45
	Chapter overview	46
	Introduction	46
	The quest allegory	47
	Society, culture and context: a working definition	47
	Society or civilisation?	49
	Anthropology and education	50
	Two key theorists in cultural anthropology	51
	Further sociocultural theorists	52
	Educational anthropology	56
	A return to culture	58
	Cultural theories and ideologies	60
	Contemporary issues and trends in educational research	61
	Lessons learnt the hard way	63
	Lesson 6: The worst response you will hear from a participant is, 'It's just what I do'	63
	Lesson 7: Culture happens in lots of places even within one institution	63
	Core points	64
	Checklist for your understanding	64
	Further reading	65



<b>4</b>	<b>Research design stages</b>	<b>66</b>
	Chapter overview	67
	Introduction	67
	The quest allegory	67
	Overview of the research process	68
	Integration of perspectives, philosophy and the sociocultural context	69
	Hourglass model	70
	The introduction	70
	Literature review	72
	Core concepts and theories	72
	Research focus	72
	Research design	72
	Methodology	73
	Data collection	73
	Data analysis and results	73
	Discussion	74
	Conclusion	74
	Further thoughts about the hourglass model	74
	Contemporary issues and trends in educational research	76
	Lessons learnt the hard way	77
	Lesson 8: If a research design does not exist, make one up	77
	Core points	78
	Checklist for your understanding	78
	Further reading	79
	<b>Section 2 Initial considerations</b>	<b>81</b>
<b>5</b>	<b>The literature review</b>	<b>83</b>
	Chapter overview	84
	Introduction	84
	The quest allegory	85
	The importance of the literature review	85
	Part 1 The pragmatics of effective searching	86
	Finding information sources	86
	Step 1: Identify your focus	87
	Step 2: Establish your word list	88
	Step 3: Draw a Venn diagram	88
	Step 4: Conduct an initial search	90
	Step 5: Narrow your results	93
	Part 2 Evaluating what you have read	95
	Analysis	97
	Synthesis	100



Part 3 Structuring the literature review	103
Contemporary issues and trends in educational research	108
Lessons learnt the hard way	110
Lesson 9: Layers of an onion	110
Core points	110
Checklist for your understanding	112
Further reading	112
<b>6 Research designs</b>	<b>113</b>
Chapter overview	114
Introduction	114
The quest allegory	115
The threshold test	117
Interest	119
Specificity	120
Ethics	120
Validity	120
Reliability	122
Generalisability	124
Beyond all reasonable doubt	124
Proportionality	124
Research design	124
A 'field trip' into the paranormal	126
A return to research design	130
The third way	132
Where do we go from here?	133
Contemporary issues and trends in educational research	134
Lessons learnt the hard way	134
Lesson 10: What may be best science may not be the best approach for you	134
Core points	135
Checklist for your understanding	135
Further reading	136
<b>7 Ethics</b>	<b>137</b>
Chapter overview	138
Introduction	138
The quest allegory	139
A question of balance	140
Supererogatory behaviour, utilitarianism and categorical imperative	144
The importance of ethics within both education and educational research	145
Ethical guidelines (BERA, BASES, BPS, etc.)	149



Specific advice for working with children and young people	153
Is today's research tomorrow's ethical dark shadow?	155
Man's best friend?	155
Wakey, wakey, rise and shine!	156
Never trust a monkey with a syringe	156
Are universities the bastions of ethical practice?	157
Contemporary issues and trends in educational research	158
Lessons learnt the hard way	159
Lesson 11: Is it stressful to ask participants about stress?	159
Core points	159
Checklist for your understanding	160
Final Thought	161
Further reading	161
<b>8 Specifying your research focus</b>	<b>162</b>
Chapter overview	163
Introduction	163
The quest allegory	163
Narrowing the focus	165
Framing the research	168
Aims and objectives	168
Research questions	171
Hypotheses	172
Specific designs and associated methods	174
Experiment	176
Case study	177
Action research	179
Grounded theory	180
Contemporary issues and trends in educational research	181
Lessons learnt the hard way	182
Lesson 12: Absorb what is useful, reject what is useless	182
Core points	183
Checklist for your understanding	184
Further reading	184
<b>Section 3 Methodological considerations, methods and analysis</b>	<b>187</b>
The quest allegory	188
<b>9 Quantitative considerations and methods</b>	<b>189</b>
Chapter overview	190
Introduction	191



Types of data	192
Nominal data	193
Ordinal data	193
Interval data	194
Ratio data	194
Data groupings based on sample (parametric and non-parametric data)	195
Standard deviation	197
Sampling procedures	200
Types of data related to statistics (descriptive and inferential statistics)	202
A brief return to variables	203
Correlation	204
Correlation is not causation	207
Probability	208
Selecting the appropriate approach to generate quantitative data	209
A ten-stage approach for developing quantitative research	210
Quantitative methods	211
Questionnaires	211
Existing measures or instruments	213
Developing new measures or instruments	214
Structured interviews	215
Structured observations	215
Contemporary issues and trends in educational research	216
Lessons learnt the hard way	217
Lesson 13: Establish what it is you want to find out in the first place	217
Lesson 14: Know your data types	218
Core points	219
Checklist for your understanding	221
Further reading	221
10 Qualitative considerations and methods	222
Chapter overview	223
Introduction	223
Research philosophy applied to qualitative approaches	224
Qualitative considerations	226
Natural setting	226
Researcher as the key instrument	227
Multiple sources of data	228
Inductive and deductive data analysis	228
Participants' meanings	229
Emergent design	229
Reflexivity	229
Holistic account	230



Selecting the appropriate approach to generate qualitative data	230
A ten-stage approach for developing qualitative research	231
Qualitative methods	232
Notes	232
Observations (unstructured)	232
Interviews and focus groups (semi-structured and unstructured)	234
Secondary data	237
Sociocultural artefacts	237
Drawings and photographs	239
Contemporary issues and trends in educational research	239
Dr Sophie King-Hill: Sex and relationship education	240
Dr Zenna Kingdon: Early years and wave play	240
Lessons learnt the hard way	241
Lesson 15: Check your data – you may have only one chance to collect it	241
Core points	241
Checklist for your understanding	242
Further reading	243
<b>11 Mixed methodologies and mixed approaches</b>	<b>244</b>
Chapter overview	245
Introduction	245
Mixed-methodology considerations	246
Selecting the appropriate approach to generate mixed-methodological data	249
Explanatory sequential design	249
Exploratory sequential design	250
Convergent design	251
Determining the appropriate design	253
A ten-stage approach for developing mixed-methodology research	253
Determining the appropriate analysis	254
Contemporary issues and trends in educational research	255
An example of the exploratory sequential design, leading to the explanatory sequential design	255
Lessons learnt the hard way	256
Lesson 16: Ensure that you write one research project, not three	256
Core points	256
Checklist for your understanding	257
Further reading	258
<b>12 Quantitative analysis and presentation</b>	<b>259</b>
Chapter overview	260
Introduction	260
Statistical software (SPSS, Excel and other resources)	261



Entering data	262
The variable view window	265
The data view window	267
The output window	268
Screening data and initial data analysis	269
Reliability	273
Selecting the appropriate analysis	277
Statistical analysis	283
Mann-Whitney U Test	283
Paired-samples t-test	289
Presenting results	292
Contemporary issues and trends in educational research	293
Lessons learnt the hard way	294
Core points	295
Checklist for your understanding	296
Further reading	296
Answers	297
<b>13 Qualitative analysis and presentation</b>	<b>298</b>
Chapter overview	299
Introduction	299
Process for analysing qualitative data	300
Coding data	301
Open coding (core words)	302
Axial coding (themes)	303
Selective coding (theories)	306
Other forms of coding	307
Approaches to analysis	308
Grounded theory	308
Narrative analysis	309
Thematic analysis	310
Sociocultural artefact analysis	311
Drawing analysis	313
Considerations relating to qualitative data analysis	316
Ensuring reliability, validity and ethics	316
Problems with recall	317
Transcription	318
Software	319
Displaying data	319
Visual representations	319
Word clouds	320
Vignettes	321



A ten-stage approach to qualitative analysis	322
Contemporary issues and trends in educational research	322
Core points	323
Checklist for your understanding	325
Further reading	325
<b>Section 4 Engaging with your own research</b>	<b>327</b>
<b>14 Structuring the research</b>	<b>329</b>
Chapter overview	330
A return to the quest allegory	330
Introduction	330
The use of logical arguments	332
Dialectic method	335
Simple logical arguments	337
Constructing a logical argument	338
Fallacies in arguments	340
Core points	342
Checklist for your understanding	343
Further reading	343
<b>15 A return to the beginning</b>	<b>344</b>
Chapter overview	345
The quest allegory	345
Introduction	346
Presenting research	348
Dissertations, independent studies and the thesis	348
Research journals	350
Research reports	351
Conference papers	351
Research posters	352
Research as professional development	353
Overcoming writer's block	356
Concluding thoughts	358
Elevate your perspective	359
Research as transformation	360
Core points	361
Checklist for your understanding	362
Further reading	362
<i>Glossary</i>	363
<i>References</i>	375
<i>Index</i>	395