The History and Development of Mathematics Examinations in New South Wales at the end of Secondary Schooling between 1788 and 2010

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Faculty of Arts and Social Sciences
University of Technology, Sydney
Certificate of Authorship/Originality

I certify that the work in this thesis has not previously been submitted for a degree nor has it been submitted as part of requirements for a degree except as fully acknowledged within the text.

I also certify that the thesis has been written by me. Any help that I have received in my research work and the preparation of the thesis itself has been acknowledged. In addition, I certify that all information sources and literature used are indicated in the thesis.

Stephen A Curtis
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Dedication

This thesis is dedicated to my parents Elizabeth and Emery Curtis. They believed that education and knowledge can never be taken from anyone and made enormous sacrifices so their children would have every opportunity to study.
Table of Contents

Declaration II

Acknowledgements III

Dedication IV

Table of Content V

List of Tables and Figures XII

Abstract of Thesis XXIII

Chapter 1 Introduction 1
1.1 Rationale for the research 1
1.2 Purpose of this study 2

Chapter 2 Literature Review 5
2.1 Importance of mathematics 6
2.2 Changing society 8
2.3 Curriculum changes 10
2.4 Examination process 17
   2.4.1 Matriculation examination 19
   2.4.2 Junior and Senior public examinations 20
   2.4.3 Leaving Certificate 20
   2.4.4 Higher School Certificate 21
2.5 Analysis used to study mathematics examinations 22
   2.5.1 Cognitive competencies 23
   2.5.2 Examining the examinations 24
   2.5.3 Using instructions to test critical thinking strategies 27
   2.5.4 TIMSS 31
2.6 Review 34
5.4 Results

5.4.1 Higher level, Senior Public and Matriculation honours

5.4.1.1 Content

5.4.1.1.1 Arithmetic by topics
5.4.1.1.2 Arithmetic at ten year intervals
5.4.1.1.3 Algebra by topics
5.4.1.1.4 Algebra at ten year intervals
5.4.1.1.5 Geometry by topics
5.4.1.1.6 Geometry at ten year intervals
5.4.1.1.7 Trigonometry by topics
5.4.1.1.8 Trigonometry at ten year intervals

5.4.1.2 Instructions

5.4.1.2.1 Higher level
5.4.1.2.2 Higher level at ten year intervals

5.4.2 Lower level, junior public and matriculation

5.4.2.1 Content

5.4.2.1.1 Arithmetic by topics
5.4.2.1.2 Arithmetic at ten year intervals
5.4.2.1.3 Algebra by topics
5.4.2.1.4 Algebra at ten year intervals
5.4.2.1.5 Geometry by topics
5.4.2.1.6 Geometry at ten year intervals

5.4.2.2 Instructions

5.4.2.2.1 Lower level
5.4.2.2.2 Lower level at ten year intervals

5.4.3 Matriculation versus Public examinations

5.5 Review

Chapter 6 Calculus a new beginning, 1904 – 1939

6.1 Background

6.1.1 Changing society

6.1.1.1 Oldest generation
6.1.1.2 Lucky generation/Builders
6.2 Curriculum changes
6.3 Examination process
6.4 Description of examination papers
   6.4.1 Junior public
   6.4.2 Senior public
   6.4.3 Leaving Certificate
   6.4.4 Matriculation
6.5 Results
   6.5.1 Leaving Certificate Honours
      6.5.1.1 Content
      6.5.1.2 Instructions
   6.5.2 Higher standard
      6.5.2.1 Content
      6.5.2.2 Instructions
   6.5.3 Lower standard
      6.5.3.1 Content
      6.5.3.2 Instructions
6.6 Review

Chapter 7 Changing world, 1939 – 1962
7.1 Background
   7.1.1 Changing society
      7.1.1.1 Baby boomers
7.2 Curriculum changes
7.3 Examination process
7.4 Description of examination papers
7.5 Results
   7.5.1 Examinations with calculus
      7.5.1.1 First Level
8.5 Results

8.5.1 Explanation of examination papers 179
8.5.2 Examinations with calculus 179
  8.5.2.1 First level 179
    8.5.2.1.1 Content 179
    8.5.2.1.2 Instructions 182
  8.5.2.2 Second level 184
    8.5.2.2.1 Content 184
    8.5.2.2.2 Instructions 186
  8.5.2.3 Third level 189
    8.5.2.3.1 Content 189
    8.5.2.3.2 Instructions 191
8.5.3 Examinations without calculus 193
  8.5.3.1 Content 193
  8.5.3.2 Instructions 196
  8.5.3.3 Comparing Mathematics in Society (MIS) with Mathematics in Practice (MIP) 198

8.6 Review 199

Chapter 9  The Big Picture, 1881 – 2008

9.1 Cognitive competency 203
  9.1.1 Entry level calculus, 1916 and 2008 203
  9.1.2 Non-calculus, 1881 and 2008 205
  9.1.3 Cognitive results 206
9.2 Longitudinal overview 207
  9.2.1 Entry level calculus, 1916 and 2008 207
    9.2.1.1 Content 208
    9.2.1.2 Instructions 211
  9.2.2 Non-calculus, 1881 and 2008 214
    9.2.2.1 Content 214
    9.2.2.2 Instructions 218
  9.2.3 Longitudinal results 220
9.3 Statistical overview
   9.3.1 Statistical results
9.4 Review

Chapter 10 Conclusions
10.1 Introduction
10.2 Answers to research questions
   10.2.1 Research Question 1
      10.2.1.1 What has changed?
      10.2.1.2 What has stayed the same?
   10.2.2 Research Question 2
      10.2.2.1 Changing society
      10.2.2.2 Key people and reports
   10.2.3 Research Question 3
10.3 Difficulty of examinations
10.4 Suggestions for future research

References
Tables

Table 2.1  Australia’s generation classification 9
Table 2.2  Learning styles (AAMT, 2009) 10
Table 2.3  BOS glossary grouped by knowledge, skill and understanding (BOS HSC Update Newsletter 2, 2002) 28
Table 2.4  Adaptation of Bloom’s critical thinking strategies 31
Table 2.5  Categories considered for analysis (Cochrane, 1999) 32
Table 2.6  Cognitive domain criteria (TIMSS, 2009) 33
Table 3.1  Examination papers used for analysis. 49
Table 3.2  References 52
Table 3.3  Content of topics for a sample examination paper 60
Table 5.1  Topics examined for Junior Public and Matriculation examinations 85
Table 5.2  Topics examined for Senior Public and Matriculation Honours examinations 86
Table 6.1  Pathway to university before the Leaving Certificate 114
Table 6.2  Pathway to university after the Leaving Certificate 116
Table 6.3  List of courses from 1901 – 1942 117
Table 7.1  Summary of mathematics examination papers 1932 – 1962 142
Table 8.1  Summary of mathematics examination papers 1962 – 2008 176
Table 8.2  Comparison between the Leaving Certificate and the HSC 177
Table 8.3  Matriculation comparison table 177
Table 8.4  Description of all HSC examinations 178

Figures

Chapter 2
Figure 2.1  Examination topics to be considered 24
Figure 2.2  4th Grade selected results for Knowing, Applying & Reasoning 33
Figure 2.3  8th Grade selected results for Knowing, Applying & Reasoning 33

Chapter 3
Figure 3.1  Example of tally of instructions 43

Chapter 5
Higher level - Senior Public and Matriculation Honours

Arithmetic
Figure 5.1  Content: Calculation 87
Figure 5.2  Content: Mensuration 87
Figure 5.3  Content: Finance 87
Table of Contents

Figure 5.4  Content in 1881  88
Figure 5.5  Content in 1891  88
Figure 5.6  Content in 1901  88

Algebra
Figure 5.7  Content: Simplify  88
Figure 5.8  Content: Equations  88
Figure 5.9  Content: Proof  89
Figure 5.10  Content: Factorize  89
Figure 5.11  Content: Indices and Surds  89
Figure 5.12  Content: Series  89
Figure 5.13  Content: Logarithms  89
Figure 5.14  Content: Binomial theorem  89
Figure 5.15  Content in 1881  89
Figure 5.16  Content in 1891  89
Figure 5.17  Content in 1901  90

Geometry
Figure 5.18  Content: Definitions  90
Figure 5.19  Content: Triangle proof  90
Figure 5.20  Content: Circle proof  90
Figure 5.21  Content: Polygon proof  90
Figure 5.22  Content in 1881  91
Figure 5.23  Content in 1891  91
Figure 5.24  Content in 1901  91

Trigonometry
Figure 5.25  Content: Proof  92
Figure 5.26  Content: Sine & Cosine rule and Functions  92
Figure 5.27  Content: Compound angles  92
Figure 5.28  Content in 1881  92
Figure 5.29  Content in 1891  92
Figure 5.30  Content in 1901  92

Instructions
Figure 5.31  Instructions using Simplify  93
Figure 5.32  Instructions using What is  93
Figure 5.33  Instructions using Solve  93
Figure 5.34  Instructions using Prove  93
Figure 5.35  Instructions using Define  93
Figure 5.36  Instructions using Find  93
Figure 5.37  Instructions using How  94
Figure 5.38  Instructions using Calculate  94
Figure 5.39  Instructions using Show  94
Figure 5.40  Instructions used in 1881  94
Figure 5.41  Instructions used in 1891  94
Figure 5.42  Instructions used in 1901  94

Lower level - Junior Public and Matriculation

Arithmetic
Figure 5.43  Content: Calculation  95
Figure 5.44  Content: Mensuration 95
Figure 5.45  Content: Finance 95
Figure 5.46  Content in 1881 95
Figure 5.47  Content in 1891 95
Figure 5.48  Content in 1901 96

Algebra
Figure 5.49  Content: Simplify 96
Figure 5.50  Content: Equations 96
Figure 5.51  Content: Proof 96
Figure 5.52  Content: Factorize 96
Figure 5.53  Content in 1881 99
Figure 5.54  Content in 1891 99
Figure 5.55  Content in 1901 97

Geometry
Figure 5.56  Content: Definitions 97
Figure 5.57  Content: Triangle proof 97
Figure 5.58  Content: Circle proof 97
Figure 5.59  Content: Polygon proof 98
Figure 5.60  Content in 1881 98
Figure 5.61  Content in 1891 98
Figure 5.62  Content in 1901 98

Instructions
Figure 5.63  Instructions using Simplify 99
Figure 5.64  Instructions using What is 99
Figure 5.65  Instructions using Solve 99
Figure 5.66  Instructions using Prove 99
Figure 5.67  Instructions using Define 99
Figure 5.68  Instructions using Find 99
Figure 5.69  Instructions using How 99
Figure 5.70  Instructions using Calculate 99
Figure 5.71  Instructions used in 1881 100
Figure 5.72  Instructions used in 1891 100
Figure 5.73  Instructions used in 1901 100

Conclusion
Figure 5.74  Sample examination paper June, 1893 102

Chapter 6
Leaving Certificate Honours (with calculus)
Figure 6.1  Content: Harder algebra 122
Figure 6.2  Content: Series 122
Figure 6.3  Content: Geometry 122
Figure 6.4  Content: Trigonometry 122
Figure 6.5  Content: Calculus 122
Figure 6.6  Content: Binomial theorem 122
Figure 6.7  Content in 1916 122
Figure 6.8  Content in 1922 122
Figure 6.9  Content in 1932 123
Figure 6.10  Content in 1942  123
Figure 6.11  Instructions using Find  123
Figure 6.12  Instructions using Show  123
Figure 6.13  Instructions using Prove  123
Figure 6.14  Instructions using What is  123
Figure 6.15  Instructions using Write down  124
Figure 6.16  Instructions using Discuss  124
Figure 6.17  Instructions used in 1916  124
Figure 6.18  Instructions used in 1922  124
Figure 6.19  Instructions used in 1932  124
Figure 6.20  Instructions used in 1942  124

Higher standard (non-calculus)
Figure 6.21  Content: Arithmetic  125
Figure 6.22  Content: Algebra  125
Figure 6.23  Content: Geometry  125
Figure 6.24  Content: Trigonometry  125
Figure 6.25  Content: Series  125
Figure 6.26  Content: Binomial theorem  125
Figure 6.27  Content in 1901  126
Figure 6.28  Content in 1911  126
Figure 6.29  Content in 1922  126
Figure 6.30  Content in 1932  126
Figure 6.31  Content in 1942  126
Figure 6.32  Instructions using Solve  127
Figure 6.33  Instructions using Prove  127
Figure 6.34  Instructions using Find  127
Figure 6.35  Instructions using Show  127
Figure 6.36  Instructions used in 1901  127
Figure 6.37  Instructions used in 1911  127
Figure 6.38  Instructions used in 1922  127
Figure 6.39  Instructions used in 1932  127
Figure 6.40  Instructions used in 1942  128

Lower standard (non-calculus)
Figure 6.41  Content: Arithmetic/Algebra  128
Figure 6.42  Content: Equations  128
Figure 6.43  Content: Harder algebra  128
Figure 6.44  Content: Geometry  128
Figure 6.45  Content: Trigonometry  129
Figure 6.46  Content in 1901  129
Figure 6.47  Content in 1911  129
Figure 6.48  Content in 1922  129
Figure 6.49  Content in 1932  129
Figure 6.50  Content in 1942  129
Figure 6.51  Instructions using Solve  130
Figure 6.52  Instructions using Prove  130
Figure 6.53  Instructions using Find  130
Figure 6.54  Instructions using Show  130
Figure 6.55  Instructions used in 1901  131
Figure 6.56  Instructions used in 1911  131
Figure 6.57  Instructions used in 1922  131
Figure 6.58  Instructions used in 1932  131
Figure 6.59  Instructions used in 1942  131

Chapter 7
First level
Figure 7.1  Content in 1962  144
Figure 7.2  Instructions used in 1962  144

Second level
Figure 7.3  Content in 1952  145
Figure 7.4  Content in 1962  145
Figure 7.5  Instructions used in 1952  146
Figure 7.6  Instructions used in 1962  146

Third level
Figure 7.7  Second level content in 1962  147
Figure 7.8  Third level content in 1962  147
Figure 7.9  Content: Algebra  148
Figure 7.10  Content: Series  148
Figure 7.11  Content: Logs/Exp  148
Figure 7.12  Content: Calculus  148
Figure 7.13  Content: Geometry  148
Figure 7.14  Content: Trigonometry  148
Figure 7.15  Content: Binomial theorem  148
Figure 7.16  Content in 1932  149
Figure 7.17  Content in 1942  149
Figure 7.18  Content in 1952  149
Figure 7.19  Content in 1962  149
Figure 7.20  Instruction using What is  150
Figure 7.21  Instruction using Solve  150
Figure 7.22  Instruction using Prove  150
Figure 7.23  Instruction using Find  150
Figure 7.24  Instruction using Show  150
Figure 7.25  Instruction using State  150
Figure 7.26  Instructions used in 1932  150
Figure 7.27  Instructions used in 1942  150
Figure 7.28  Instructions used in 1952  151
Figure 7.29  Instructions used in 1962  151

Higher level
Figure 7.30  Content: Algebra  152
Figure 7.31  Content: Geometry  152
Figure 7.32  Content: Trigonometry  152
Figure 7.33  Content in 1932  152
Figure 7.34  Content in 1942  152
Figure 7.35  Content in 1952  152
Figure 7.36  Content in 1962  152
Figure 7.37  Instructions using Find  153
Figure 7.38  Instructions using What  153
Figure 7.39  Instructions using Show  153
Figure 7.40  Instructions using Solve  153
Figure 7.41  Instructions using Calculate  153
Figure 7.42  Instructions using Prove  153
Figure 7.43  Instructions using Write  154
Figure 7.44  Instructions used in 1932  154
Figure 7.45  Instructions used in 1942  154
Figure 7.46  Instructions used in 1952  154
Figure 7.47  Instructions used in 1962  154

**Lower level**

Figure 7.48  Content by examinations  155
Figure 7.49  Examinations by content  155
Figure 7.50  Instructions by examinations  156
Figure 7.51  Examination by instructions  156

**Chapter 8**

**First level**

Figure 8.1  Content: Algebra  180
Figure 8.2  Content: Calculus  180
Figure 8.3  Content: Geometry  180
Figure 8.4  Content: Trigonometry  180
Figure 8.5  Content: Probability  181
Figure 8.6  Content: Complex numbers  181
Figure 8.7  Content: Matrices  181
Figure 8.8  Content: Induction  181
Figure 8.9  Content: Conics  181
Figure 8.10  Diagrams, graphs and tables  181
Figure 8.11  Content in 1962  181
Figure 8.12  Content in 1973  181
Figure 8.13  Content in 1982  181
Figure 8.14  Content in 1992  181
Figure 8.15  Content in 2002  182
Figure 8.16  Content in 2008  182
Figure 8.17  Instructions using Find  182
Figure 8.18  Instructions using Prove  182
Figure 8.19  Instructions using Show  182
Figure 8.20  Instructions using State  182
Figure 8.21  Instructions using Deduce  183
Figure 8.22  Instructions using What is  183
Figure 8.23  Instructions using Write down  183
Figure 8.24  Instructions using Sketch  183
Figure 8.24a  Variety of Instructions  183
Figure 8.25  Instructions used in 1962  183
| Figure 8.26 | Instructions used in 1973 | 183 |
| Figure 8.27 | Instructions used in 1982 | 183 |
| Figure 8.28 | Instructions used in 1992 | 183 |
| Figure 8.29 | Instructions used in 2002 | 184 |
| Figure 8.30 | Instructions used in 2008 | 184 |

**Second level**

| Figure 8.31 | Content: Algebra | 185 |
| Figure 8.32 | Content: Calculus | 185 |
| Figure 8.33 | Content: Geometry | 185 |
| Figure 8.34 | Content: Trigonometry | 185 |
| Figure 8.35 | Content: Probability | 185 |
| Figure 8.36 | Content: Binomial theorem | 185 |
| Figure 8.37 | Content: Series | 185 |
| Figure 8.38 | Content: Induction | 185 |
| Figure 8.39 | Content: Projectile motion | 185 |
| Figure 8.40 | Content: S.H.M | 185 |
| Figure 8.41 | Total of all calculus | 186 |
| Figure 8.42 | Diagrams, graphs and tables | 186 |
| Figure 8.43 | Content in 1962 | 186 |
| Figure 8.44 | Content in 1973 | 186 |
| Figure 8.45 | Content in 1982 | 186 |
| Figure 8.46 | Content in 1992 | 186 |
| Figure 8.47 | Content in 2002 | 186 |
| Figure 8.48 | Content in 2008 | 186 |
| Figure 8.49 | Instructions using Find | 187 |
| Figure 8.50 | Instructions using Show | 187 |
| Figure 8.51 | Instructions using Calculate | 187 |
| Figure 8.52 | Instructions using Evaluate | 187 |
| Figure 8.53 | Instructions using What is | 187 |
| Figure 8.54 | Instructions using Write down | 187 |
| Figure 8.55 | Instructions using Sketch | 188 |
| Figure 8.55a | Variety of instructions | 188 |
| Figure 8.56 | Instructions used in 1962 | 188 |
| Figure 8.57 | Instructions used in 1973 | 188 |
| Figure 8.58 | Instructions used in 1982 | 188 |
| Figure 8.59 | Instructions used in 1992 | 188 |
| Figure 8.60 | Instructions used in 2002 | 188 |
| Figure 8.61 | Instructions used in 2008 | 188 |

**Third level**

<p>| Figure 8.62 | Content: Algebra | 189 |
| Figure 8.63 | Content: Calculus | 189 |
| Figure 8.64 | Content: Geometry | 190 |
| Figure 8.65 | Content: Trigonometry | 190 |
| Figure 8.66 | Content: Probability | 190 |
| Figure 8.67 | Content: Series and Finance | 190 |
| Figure 8.68 | Content of all calculus | 190 |
| Figure 8.69 | Diagrams, graphs and tables | 190 |</p>
<table>
<thead>
<tr>
<th>Figure 8.70</th>
<th>Content in 1962</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Figure 8.71</td>
<td>Content in 1973</td>
<td>190</td>
</tr>
<tr>
<td>Figure 8.72</td>
<td>Content in 1982</td>
<td>191</td>
</tr>
<tr>
<td>Figure 8.73</td>
<td>Content in 1992</td>
<td>191</td>
</tr>
<tr>
<td>Figure 8.74</td>
<td>Content in 2002</td>
<td>191</td>
</tr>
<tr>
<td>Figure 8.75</td>
<td>Content in 2008</td>
<td>191</td>
</tr>
<tr>
<td>Figure 8.76</td>
<td>Instructions using Find</td>
<td>191</td>
</tr>
<tr>
<td>Figure 8.77</td>
<td>Instructions using Shaw</td>
<td>191</td>
</tr>
<tr>
<td>Figure 8.78</td>
<td>Instructions using Calculate</td>
<td>192</td>
</tr>
<tr>
<td>Figure 8.79</td>
<td>Instructions using What is</td>
<td>192</td>
</tr>
<tr>
<td>Figure 8.80</td>
<td>Instructions using Write down</td>
<td>192</td>
</tr>
<tr>
<td>Figure 8.81</td>
<td>Instructions using Sketch</td>
<td>192</td>
</tr>
<tr>
<td>Figure 8.82</td>
<td>Variety of instructions</td>
<td>192</td>
</tr>
<tr>
<td>Figure 8.83</td>
<td>Instructions used in 1962</td>
<td>192</td>
</tr>
<tr>
<td>Figure 8.84</td>
<td>Instructions used in 1973</td>
<td>192</td>
</tr>
<tr>
<td>Figure 8.85</td>
<td>Instructions used in 1982</td>
<td>193</td>
</tr>
<tr>
<td>Figure 8.86</td>
<td>Instructions used in 1992</td>
<td>193</td>
</tr>
<tr>
<td>Figure 8.87</td>
<td>Instructions used in 2002</td>
<td>193</td>
</tr>
<tr>
<td>Figure 8.88</td>
<td>Instructions used in 2008</td>
<td>193</td>
</tr>
</tbody>
</table>

**Non-calculus**

| Figure 8.89 | Content: Arithmetic and Algebra | 194  |
| Figure 8.90 | Content: Measurement | 194  |
| Figure 8.91 | Content: Geometry | 194  |
| Figure 8.92 | Content: Trigonometry | 194  |
| Figure 8.93 | Content: Financial mathematics | 194  |
| Figure 8.94 | Content: Statistics | 194  |
| Figure 8.95 | Content: Probability | 195  |
| Figure 8.96 | Content of graphs | 195  |
| Figure 8.97 | Diagrams, graphs and tables | 195  |
| Figure 8.98 | Content in 1962 | 195  |
| Figure 8.99 | Content in 1973 | 195  |
| Figure 8.100 | Content in 1982 | 195  |
| Figure 8.101 | Content in 1992 | 195  |
| Figure 8.102 | Content in 2002 | 196  |
| Figure 8.103 | Content in 2008 | 196  |
| Figure 8.104 | Instructions using Find | 196  |
| Figure 8.105 | Instructions using What is | 196  |
| Figure 8.106 | Instructions using How | 196  |
| Figure 8.107 | Instructions using Which | 196  |
| Figure 8.108 | Instructions using Calculate | 197  |
| Figure 8.109 | Instructions using Sketch | 197  |
| Figure 8.110 | Instructions using Write down | 197  |
| Figure 8.110a | Variety of Instructions | 197  |
| Figure 8.111 | Instructions used in 1962 | 197  |
| Figure 8.112 | Instructions used in 1973 | 197  |
| Figure 8.113 | Instructions used in 1982 | 197  |
| Figure 8.114 | Instructions used in 1992 | 197  |

XIX
Figure 8.115  Instructions used in 2002  198
Figure 8.116  Instructions used in 2008  198
Figure 8.117  Topics for MIS and MIP  198
Figure 8.118  Instructions for MIS and MIP  198
Figure 8.119  Diagrams for MIS and MIP  199
Figure 8.120  Variety of Instructions  199

Chapter 9

Entry level calculus
Figure 9.1  Instructions for 1916 (blue) and 2008 (red)  205
Figure 9.2  Totals for What is/Find and Prove/Show  205

Non-calculus
Figure 9.3  Instructions for 1916 (blue) and 2008 (red)  206
Figure 9.4  Totals for What is/Find and Prove/Show  206

Entry Level calculus
Figure 9.5  Content: Algebra  208
Figure 9.6  Content: Calculus  208
Figure 9.7  Content: Geometry  209
Figure 9.8  Content: Trigonometry  209
Figure 9.9  Content: Series  209
Figure 9.10  Content: Finance  209
Figure 9.11  Content: Logarithms  209
Figure 9.12  Content: Binomial theorem  209
Figure 9.13  Content: Probability  209
Figure 9.14  Diagrams, graphs and tables  209
Figure 9.15  Content in 1916  210
Figure 9.16  Content in 1922  210
Figure 9.17  Content in 1932  210
Figure 9.18  Content in 1942  210
Figure 9.19  Content in 1952  210
Figure 9.20  Content in 1962  210
Figure 9.21  Content in 1973  210
Figure 9.22  Content in 1982  210
Figure 9.23  Content in 1992  211
Figure 9.24  Content in 2002  211
Figure 9.25  Content in 2008  211
Figure 9.26  Overview of Content 1916 – 2008  211
Figure 9.27  Instructions using Find  211
Figure 9.28  Instructions using What is  211
Figure 9.29  Instructions using Prove  212
Figure 9.30  Instructions using Show  212
Figure 9.31  Instructions using Calculate  212
Figure 9.32  Instructions using Solve  212
Figure 9.33  Instructions using Write down  212
Figure 9.34  Instructions using Sketch  212
Figure 9.35  Instructions used in 1916  213
Figure 9.36  Instructions used in 1922  213
| Figure 9.37 | Instructions used in 1932 | 213 |
| Figure 9.38 | Instructions used in 1942 | 213 |
| Figure 9.39 | Instructions used in 1952 | 213 |
| Figure 9.40 | Instructions used in 1962 | 213 |
| Figure 9.41 | Instructions used in 1973 | 213 |
| Figure 9.42 | Instructions used in 1982 | 213 |
| Figure 9.43 | Instructions used in 1992 | 213 |
| Figure 9.44 | Instructions used in 2002 | 213 |
| Figure 9.45 | Instructions used in 2008 | 214 |
| Figure 9.46 | Overview of Instructions 1916 – 2008 | 214 |

Non-calculus

| Figure 9.47 | Content: Arithmetic & Algebra | 215 |
| Figure 9.48 | Content: Finance | 215 |
| Figure 9.49 | Content: Geometry | 215 |
| Figure 9.50 | Content: Trigonometry | 215 |
| Figure 9.51 | Content: Series | 215 |
| Figure 9.52 | Content: Logarithms | 215 |
| Figure 9.53 | Content: Statistics | 215 |
| Figure 9.54 | Content: Probability | 214 |
| Figure 9.55 | Diagrams, graphs and tables | 215 |
| Figure 9.56 | Content in 1881 | 215 |
| Figure 9.57 | Content in 1891 | 216 |
| Figure 9.58 | Content in 1901 | 216 |
| Figure 9.59 | Content in 1911 | 216 |
| Figure 9.60 | Content in 1922 | 216 |
| Figure 9.61 | Content in 1932 | 216 |
| Figure 9.62 | Content in 1942 | 217 |
| Figure 9.63 | Content in 1952 | 217 |
| Figure 9.64 | Content in 1962 | 217 |
| Figure 9.65 | Content in 1973 | 217 |
| Figure 9.66 | Content in 1982 | 217 |
| Figure 9.67 | Content in 1992 | 217 |
| Figure 9.68 | Content in 2002 | 217 |
| Figure 9.69 | Content in 2008 | 217 |
| Figure 9.70 | Overview of Content 1881 – 2008 | 217 |
| Figure 9.71 | Instructions using Find | 218 |
| Figure 9.72 | Instructions using What is | 218 |
| Figure 9.73 | Instructions using Prove | 218 |
| Figure 9.74 | Instructions using Show | 218 |
| Figure 9.75 | Instructions using Calculate | 218 |
| Figure 9.76 | Instructions using How | 218 |
| Figure 9.77 | Instructions used in 1881 | 219 |
| Figure 9.78 | Instructions used in 1891 | 219 |
| Figure 9.79 | Instructions used in 1901 | 219 |
| Figure 9.80 | Instructions used in 1911 | 219 |
| Figure 9.81 | Instructions used in 1922 | 219 |
| Figure 9.82 | Instructions used in 1932 | 219 |
| Figure 9.83 | Instructions used in 1942 | 219 |
| Figure 9.84 | Instructions used in 1952 | 219 |
| Figure 9.85 | Instructions used in 1962 | 220 |
| Figure 9.86 | Instructions used in 1973 | 220 |
| Figure 9.87 | Instructions used in 1982 | 220 |
| Figure 9.88 | Instructions used in 1992 | 220 |
| Figure 9.89 | Instructions used in 2002 | 220 |
| Figure 9.90 | Instructions used in 2008 | 220 |
| Figure 9.91 | Overview of Instructions 1881 – 2008 | 220 |
| **Entry level calculus** |  | |
| Figure 9.92 | Content for 1916 and 1952 | 222 |
| Figure 9.93 | Content for 1962 and 2008 | 222 |
| Figure 9.94 | Instructions for 1916 and 1952 | 222 |
| Figure 9.95 | Instructions for 1962 and 2008 | 222 |
| **Non-calculus** |  | |
| Figure 9.96 | Content for 1916 and 1952 | 222 |
| Figure 9.97 | Content for 1962 and 2008 | 222 |
| Figure 9.98 | Instructions for 1916 and 1952 | 222 |
| Figure 9.99 | Instructions for 1962 and 2008 | 222 |
| **Statistical overview** |  | |
| Figure 9.100 | Population growth of NSW | 223 |
| Figure 9.101 | Percentage of students doing examinations at the end of secondary schooling | 223 |
| Figure 9.102 | Total number and mathematics students at the end of secondary schooling | 224 |
| Figure 9.103 | Percentage of mathematics students at the end of secondary schooling | 224 |
| Figure 9.104 | Total number of mathematics students at the end of secondary schooling | 224 |
ABSTRACT

The History and Development of Mathematics Examinations in New South Wales at the end of Secondary Schooling between 1788 and 2010.

This doctoral dissertation reviews the historical developments of education and mathematics examinations used in New South Wales at the end of secondary schooling from 1788 to 2010. A heuristic investigative process, using a manual application of quantitative content analysis was carried out. Time was used as an independent variable with an application of middle range theory to underpin the theoretical framework for this research.

The hypothesis is that over an extended period of time, it would be reasonable to expect changes to the examination process due to the influence of factors such as historical and political events, curriculum developments, and changes in social values.

The results indicate there was just one significant change identified in the early 1960s. Contrary to expectations, an analysis of the taxonomy of terms has shown that the majority of the questions were skills based and did not test logical thinking and reasoning. Apart from gender and racial equality, the style and the type of questions have not taken into account any other social changes.

In view of the above the concluding chapter will suggest ways forward for educational research.