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Academic Target Setting:
Formative Use of Achievement Data.

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A thesis submitted in partial fulfillment of the requirements
for the degree of Doctor of Philosophy in Education,
The University of Auckland, 2009.
Abstract

Improving student achievement is an ongoing challenge for schools with a great deal of data collected to ascertain improvement trends. In this thesis, possibilities for using this achievement data to improve outcomes for students, through establishing academic achievement targets was explored. Longitudinal achievement data were collected about students, over time and analysed for patterns and trends. This information was then used to formulate individual academic achievement targets for students in Year 9 and Year 11. All the academic targets for the students incorporated an element of challenge and were intended to lift individual student performance but were not designed to be predictive. The targets (specifying standards, credits and levels of achievement) were then shared with students as part of an academic counselling programme. The study also explored classroom teachers’ experiences of the target setting process in the subject areas of English and mathematics.

The results indicated statistically significant higher achievement outcomes for students with academic targets compared to those without such targets. The students involved in the intervention were 1.9 times more likely to gain the Level 1 National Certificate of Educational Achievement, than those students not in the intervention, when controlling for prior achievement, ethnicity and gender variables. In addition, being part of the intervention allowed those students who entered the school with a significantly lower intake score (as measured by the Middle Years Information System (MidYIS)) to be more successful in gaining the Level 1 Certificate, than students in previous years. The quality of achievement in Year 11 was also improved as measured by a grade point score in the subjects of English and mathematics. The study demonstrated the benefits of the systematic use of longitudinal achievement data as a basis for establishing achievement targets for students.

The teachers reported that discussing the targets with students helped improve relationships between themselves and the students. However, the provision of targets did not change teaching practices and in some cases created an element of tension when teachers’ expectations of students conflicted with the targets established through the models explained in the early parts of the study.
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# Contents

Abstract................................................................................................................................................... i  
Acknowledgements.................................................................................................................................... ii  
Contents ..................................................................................................................................................... iii  

## CHAPTER ONE

Introduction and Overview .......................................................................................................................... 1  
Global Context............................................................................................................................................. 2  
  England ..................................................................................................................................................... 4  
  United States of America ......................................................................................................................... 6  
  New Zealand .......................................................................................................................................... 6  
Local Context............................................................................................................................................... 9  
  New Zealand High School (NZHS) ......................................................................................................... 10  
  Academic Counselling at NZHS .............................................................................................................. 10  
This Research Project.................................................................................................................................. 11  

## CHAPTER TWO

Literature Review......................................................................................................................................... 15  
  Goal Setting – introduction ...................................................................................................................... 15  
  Goal Setting – the theory ......................................................................................................................... 16  
  Goal Setting – in education ....................................................................................................................... 19  
  Goals and Feedback ................................................................................................................................. 21  
  Goals and Teacher Expectations .............................................................................................................. 22  
  Goals and Data ........................................................................................................................................ 24  
  Goals and Leadership ............................................................................................................................... 30  
  Summary ................................................................................................................................................. 31  
Conceptual Models for Study...................................................................................................................... 32  
  Macro Model .......................................................................................................................................... 32  
  Micro Model ......................................................................................................................................... 36  
Conclusion.................................................................................................................................................... 38  

## CHAPTER THREE

Methodology ............................................................................................................................................... 39  
  Design ................................................................................................................................................... 39  
  Validity .................................................................................................................................................. 41  
  Participants ........................................................................................................................................... 42  
  Instruments .......................................................................................................................................... 43  
  Missing Data ........................................................................................................................................ 46  
  Ethics ..................................................................................................................................................... 48  
  Studies .................................................................................................................................................... 49  

## CHAPTER FOUR

Study 1a: NCEA Level 1 Targets................................................................................................................... 50  
Method ....................................................................................................................................................... 50  
  Datasets ................................................................................................................................................ 50  
  Participants Used to Establish the Targets ............................................................................................ 51  
  Overview ............................................................................................................................................. 52  
  Process ................................................................................................................................................ 55  
  Participants .......................................................................................................................................... 60  
  Analyses .............................................................................................................................................. 61  
Results ......................................................................................................................................................... 62  
  NCEA Level 1 Certificate ...................................................................................................................... 62
CHAPTER FIVE

Study 1b: Subject Targets for Year 11 ................................................................................................................82
Method ....................................................................................................................................................................82
Datasets .................................................................................................................................................................82
Participants Used to Establish the Targets ........................................................................................................84
Overview ...............................................................................................................................................................84
Process ....................................................................................................................................................................85
Analyses ..................................................................................................................................................................91

English Results ......................................................................................................................................................92
Participants ...............................................................................................................................................................92
Analysis ....................................................................................................................................................................94
Total Credits Gained in the English External Standards ..................................................................................94
Grade Point Score (GPS) Analysis in English External Standards ..................................................................99

Mathematics Results .............................................................................................................................................103
Participants .............................................................................................................................................................103
Analysis ..................................................................................................................................................................104
Total Credits Gained in the Mathematics External Standards .....................................................................104
Grade Point Score (GPS) Analysis in Mathematics .........................................................................................107

Conclusion .............................................................................................................................................................111

CHAPTER SIX

Study 1c: Reading Literacy and Mathematics Targets for Year 9 Students ..........................................................113
Method ....................................................................................................................................................................113
Datasets .................................................................................................................................................................113
Participants .............................................................................................................................................................113
Process ..................................................................................................................................................................114
Analyses ..................................................................................................................................................................116

Reading Literacy Results ......................................................................................................................................117
Reading Literacy Results Compared to NZSI Schools ....................................................................................119
Achieving the Reading Literacy Target ................................................................................................................122
Logistic Regression Analysis for Reading Literacy ............................................................................................124

Mathematics Results .............................................................................................................................................126
Mathematics Results Compared to NZSI Schools ............................................................................................127
Achieving the Mathematics Target ....................................................................................................................128
Logistic Regression Analysis for Mathematics .................................................................................................131

Conclusion .............................................................................................................................................................134

CHAPTER SEVEN

Study 2: Qualitative Study of Teachers’ Experiences of Target Setting .................................................................136
The Programme .......................................................................................................................................................137
Method ....................................................................................................................................................................138
Sources of Information ........................................................................................................................................138
Participants .............................................................................................................................................................138
Interviews and Focus Group Sessions ..................................................................................................................139
Questions ..............................................................................................................................................................140
Method of Analysis of the Transcripts ..................................................................................................... 141
Findings .......................................................................................................................................................... 142
  Context ........................................................................................................................................................ 142
  Implementation ......................................................................................................................................... 143
  Teacher Experiences ................................................................................................................................. 144
  Effectiveness of Target Setting in English and Mathematics ................................................................. 145
Discussion and Conclusion ........................................................................................................................ 149
CHAPTER EIGHT ........................................................................................................................................ 152
Conclusions and Discussion ......................................................................................................................... 152
  Introduction .............................................................................................................................................. 152
  Overview ................................................................................................................................................... 152
  Main Findings ........................................................................................................................................... 153
  Themes Emerging from Studies .................................................................................................................. 155
  Contribution .............................................................................................................................................. 161
  Implications ............................................................................................................................................... 162
CHAPTER NINE ........................................................................................................................................ 165
References ..................................................................................................................................................... 165
CHAPTER TEN .......................................................................................................................................... 177
Appendices ................................................................................................................................................... 177
  Appendix A – Glossary ............................................................................................................................. 177
  Appendix B – Ethics Forms .................................................................................................................... 183
  Appendix C – Focus Group Interview Schedule .................................................................................. 189