DECLARATION

I declare that, apart from the assistance acknowledged, this research is my own unaided work. It is being submitted in partial fulfillment of the requirements for the degree of Master of Science at the University of the Witwatersrand and has not been submitted for any other degree or examination at any other university.

______________________________
Maisaiah Evodia Phakisi
ABSTRACT

Following earlier worldwide trends in school science curricula, Lesotho revised its Junior Secondary Science curriculum as the new millennium started, moving towards a learner-centred approach, focusing more on activities, and including the development of appropriate science-related skills and attitudes. My observations as mentioned in chapter 1 section 1.4, page 15, were that implementation of the new curriculum was not going as expected.

There are three aspects to this study. Firstly, I had to establish what the requirements of the new curriculum are. A document analysis of the syllabus document was made, and interviews were conducted with four National Curriculum Development Centre staff who had been involved in developing the syllabus. The requirements deduced from the syllabus documents were that a learner-centred approach be used, there should be greater use of activities, and there should also be development of skills and development of appropriate attitudes. The results of the interviews however, indicated that although the curriculum developers developed the syllabus document, which implied four requirements, not all the curriculum developers seemed to clearly see them as requirements. If it is not clear that there are four important requirements, it is unlikely that the requirements will be effectively communicated to teachers.

The second step was to investigate teachers’ awareness of the new requirements, and how they were implementing them in their classrooms. Questionnaires were completed by twenty-eight Junior Secondary Science teachers in one district in Lesotho, and four teachers were interviewed to probe for in-depth information. Eleven of the teachers who completed the questionnaire did not list even one of the requirements as changes they were expected to make. Thirteen teachers mentioned use of activities in learning; 6 stated that a learner-centred approach should be used; 6 mentioned that skills have to be taught; and only one teacher indicated that there should be development of appropriate attitudes. The results also showed that many teachers tend not to discriminate between “learner-centred” and “activity-based” approaches. Furthermore, only about half of the teachers seemed to understand the meaning of “activity-based” teaching and learning approaches. It also appears that few teachers really understand that skills and attitudes need to be actively taught, and few are actually teaching skills in their science classes.

Lastly, document analysis of the syllabus document (already discussed above), available textbooks from two publishers, and teacher’s guides from one publisher was made to determine the extent to which they provide guidance to help the teachers to understand and make the required curriculum changes. The results of the study indicated: i) The syllabus document does not clearly state requirements as such: instead the requirements are deduced from statements scattered in the syllabus documents. The terms used, like learner-centredness, are not defined. ii) The two teacher’s guides analysed give little guidance on the features of using a learner-centred approach, like accommodating the learning pace of learners and recognizing learner differences in learning abilities. Whilst one guide gives some guidance on how to teach the skill of report-
writing it gives no guidance on other skills, most importantly those skills mentioned in the
syllabus document. Teacher’s guides are the main place where we would expect to find guidance,
but little guidance is given about how teachers should go about putting the new approaches to
practice. iii) The four Form B and C textbooks from two publishers have very few activities
which promote the four new approaches required by the new curriculum. The implication is that
one of the factors which may be inhibiting change in teachers’ practice is that the documents
intended to support teachers are not fully serving this purpose.
DEDICATION

This work is dedicated to my daughter Lintle Lovedeliah Phakisi, my son Rammatli Isaiah Phakisi, my husband Phakisi Godfrey Phakisi and my late mother ‘Mampeoane Thuoela, and brother Mpela Samuel Thuoela and to my father Bereng Chafotsa Thuoela.
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Without the patience and constant support of my family and friends it would not have been possible to endure this lengthy course of the study. A big thank you to all of you.
TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Declaration ..................................................................................................................</td>
</tr>
<tr>
<td>Abstract ....................................................................................................................</td>
</tr>
<tr>
<td>Dedication .................................................................................................................</td>
</tr>
<tr>
<td>Acknowledgements ....................................................................................................</td>
</tr>
<tr>
<td>Table of contents .....................................................................................................</td>
</tr>
<tr>
<td>List of tables ...........................................................................................................</td>
</tr>
<tr>
<td>List of figures ..........................................................................................................</td>
</tr>
<tr>
<td>List of appendices ....................................................................................................</td>
</tr>
</tbody>
</table>

CHAPTER 1: CONTEXT OF THE STUDY, AND THE RESEARCH PROBLEM .......... 1

1.1 OVERVIEW OF THE STUDY ........................................................................... 1

1.2 A BRIEF HISTORY OF THE EDUCATION SYSTEM IN LESOTHO ........... 1

1.3 THE NEW CURRICULUM IN LESOTHO ....................................................... 3
  1.3.1 Implementation of the new curriculum in Lesotho ......................... 3
  1.3.2 The requirements of the new Junior Secondary Science curriculum ... 4
    Requirement 1: Teachers are required to use a learner-centred approach 5
    Requirement 2: Teachers are expected to actively engage learners in the learning process 9
    Requirement 3: Students must be helped to develop skills .................... 11
    Requirement 4: Teachers should help students to acquire appropriate attitudes ... 13

1.4 THE RESEARCH PROBLEM .......................................................................... 15

1.5 AIM OF THE STUDY ................................................................................... 15

1.6 RESEARCH QUESTIONS ............................................................................ 16

1.7 CONCLUDING REMARKS .......................................................................... 16

CHAPTER 2: CURRICULUM CHANGE: A THEORETICAL FRAMEWORK ...... 17

2.1 WHAT IS A THEORETICAL FRAMEWORK? .................................................. 17

2.2 UNDERSTANDING CURRICULUM REFORM ........................................... 17
  2.2.1 Why it is important to understand the theory behind curriculum reform ---------- 18
  2.2.2 What is meant by “curriculum reform” ................................................. 18

2.3 MODELS THAT EXPLAIN CURRICULUM INNOVATIONS .................... 19

2.4 POSSIBLE FACTORS AFFECTING SUCCESSFUL IMPLEMENTATION OF REFORM ................................................................. 21
2.4.1 Factors associated with curriculum change processes ........................................ 22
2.4.2 Teacher-related factors .................................................................................. 26
2.4.3 Physical resources ......................................................................................... 29
2.5 CURRICULUM CHANGES IN DEVELOPING COUNTRIES ................................. 29
2.6 CONCLUDING REMARKS ............................................................................... 30

CHAPTER 3: RESEARCH DESIGN AND METHODS USED IN THE STUDY .......... 31
3.1 OVERVIEW OF CHAPTER ............................................................................... 31
3.2 RESEARCH DESIGN ....................................................................................... 31
3.3 RESEARCH PARADIGM .................................................................................. 31
3.4 GENERAL RESEARCH APPROACH ............................................................... 33
3.5 SAMPLING ..................................................................................................... 33
3.6 DATA-GATHERING INSTRUMENTS OR STRATEGIES ................................. 35
   3.6.1 Questionnaires ........................................................................................... 36
       Advantages of questionnaires .......................................................................... 36
       Limitations of questionnaires .......................................................................... 36
       Constructing the questionnaires ...................................................................... 37
       Activity-based questionnaires .......................................................................... 38
       Face validation of the questionnaires .............................................................. 39
       Administering the questionnaires .................................................................... 39
   3.6.2 Interviews .................................................................................................. 39
       Advantages of interviews ................................................................................ 39
       Limitations of interviews ................................................................................ 40
       Designing the interview schedules .................................................................. 40
       Face validation of interview schedules .......................................................... 42
       Conducting interviews ...................................................................................... 42
   3.6.3 Document analysis ...................................................................................... 42
       Steps involved in doing document analysis ..................................................... 42
3.7 DATA ANALYSIS ............................................................................................ 43
3.8 RIGOUR IN THE RESEARCH .......................................................................... 44
3.9 ETHICAL ISSUES ............................................................................................ 44
3.10 CONCLUDING REMARKS .............................................................................. 45
CHAPTER 4: RESULTS AND DISCUSSION: UNDERSTANDING THE
REQUIREMENTS OF THE NEW CURRICULUM ………………… 46

4.1 THE REQUIREMENTS OF THE NEW CURRICULUM IN LESOTHO ………………… 46
  4.1.1 Requirements spelled out in the syllabus document ………………… 46
  4.1.2 Curriculum developers’ views about what the requirements are ………………… 47
  4.1.3 Curriculum developers’ perceptions of the four requirements of the new
       curriculum …………………………………………………………………… 49
      Curriculum developers’ perceptions of “learner-centredness” ………………… 49
      Curriculum developers’ perceptions of “activity-based” ……………………… 52
      Curriculum developers’ perceptions about the teaching of skills ………………… 54
      Curriculum developers’ perceptions about the teaching of attitudes ………………… 54
  4.1.4 Concluding remarks …………………………………………………………… 55

4.2 TEACHERS’ UNDERSTANDING OF THE REQUIREMENTS OF THE NEW
CURRICULUM …………………………………………………………………………… 55
  4.2.1 Teachers’ ideas about the requirements of the new curriculum ………………… 55
      Teachers’ understanding of “learner-centred approach” ……………………… 58
      Teachers’ understanding of “activity-based learning” …………………………… 60
  4.2.2 Teachers’ use of new approaches in teaching “breathing and respiration” ……… 63

4.3 CONCLUDING REMARKS ………………………………………………………………… 66

CHAPTER 5: RESULTS AND DISCUSSION: THE NATURE AND EXTENT OF HELP
PROVIDED BY SUPPORT DOCUMENTS ……………………… 67

5.1 POLICY DOCUMENTS ………………………………………………………………… 67

5.2 JUNIOR SECONDARY SCIENCE SYLLABUS ……………………………………… 67

5.3 TEACHERS’ GUIDES …………………………………………………………………… 68
      Guidance given about implementing a learner-centred approach ………………… 69
      Guidance given about “activity-based learning” ……………………………………… 70
      Guidance given about development of skills ………………………………………… 72
      Guidance given about development of attitudes …………………………………… 73

5.4 TEXTBOOKS ……………………………………………………………………………… 74
      The extent to which textbooks help teachers promote a learner-centred approach … 74
      The extent to which textbooks help teachers promote the use of activities ………… 76
      The extent to which textbooks help teachers promote development of skills ……… 79
      The extent to which textbooks help teachers promote development of attitudes ……… 80

5.1 CONCLUDING REMARKS ………………………………………………………………… 81
CHAPTER 6: SUMMARY OF THE FINDINGS, AND RECOMMENDATIONS ........ 82

6.1 LIMITATIONS OF THE STUDY ................................................................. 82

6.1.1 Lack of piloting of some instruments ...................................................... 82
6.1.2 No responses or incomplete responses ..................................................... 82
6.1.3 Use of convenience sampling ................................................................. 83
6.1.4 Problems with self-reporting ................................................................. 83

6.2 SUMMARY OF THE FINDINGS .............................................................. 83

6.2.1 What changes does the new curriculum require teachers to make in their classroom? 83
6.2.2 What did the curriculum developers mean by “learner-centred approach” (in the syllabus document?) ......................................................... 84
6.2.3 What did the curriculum developers understand by “activity-based” lessons? ..... 84
6.2.4 Lesotho Junior Secondary Science teachers’ understanding of the requirements ... 85

6.2.4.1 What do Lesotho Junior Secondary Science teachers believe the requirements of the new curriculum are? ................................................................. 85
6.2.4.2 What do Lesotho Junior Secondary Science teachers understand by “learner-centred approach”? ................................................................. 85
6.2.4.3 What do Lesotho Junior Secondary Science teachers understand by “activity-based lessons”? ................................................................. 86

6.2.5 In terms of the current teaching of Form B and Form C: ................................ 86

6.2.5.1 To what extent do Lesotho Junior secondary Science Teachers think they are using the new approaches when they are teaching the topic of breathing and respiration? ..... 86
6.2.5.2 How well do they believe they are coping with the new approaches and why? ........ 87
6.2.5.3 What help do they say they need? .......................................................... 87

6.2.6 To what extent do the support documents (policy documents, Junior Secondary Science syllabi and available Science textbooks and teacher’s guides) help teachers to promote the new goals (relating to skills and attitudes as well as knowledge) and approaches, with particular reference to the teaching of breathing and respiration? ......................................................... 87

6.2.7 A summary of factors that could affect implementation of the new curriculum ... 89

6.3 RECOMMENDATIONS ........................................................................... 89

6.3.1 Recommendations for curriculum developers .......................................... 89
6.3.2 Recommendations for teacher-trainers ................................................... 90
6.3.3 Recommendations for textbooks publishers .......................................... 90

6.4 CONCLUDING REMARKS ................................................................... 91

REFERENCE LIST ..................................................................................... 92
LIST OF TABLES

Table 1: Grade level arrangement in Lesotho .................................................. 3
Table 2: Stages of concern (based on Hall and Hord, 2006) ............................... 25
Table 3: A summary of available support materials analysed for the study .......... 35
Table 4: How to design effective questionnaires ............................................. 37
Table 5: Advice on how to design and conduct interviews ............................... 41
Table 6: Curriculum developers’ identification of requirements of the new curriculum ..... 47
Table 7: Frequency of teachers’ ideas about the requirements of the new curriculum ... 56
Table 8: Number of teachers correctly identifying each curriculum requirement ........ 57
Table 9: Summary of teachers’ responses about “learner-centered approach” ............ 59
Table 10: Summary of teachers’ responses about “activity-based learning” ............. 61
Table 11: A summary of teachers’ replies about activities they did for the section on breathing and respiration ................................................................. 63
Table 12: A summary of activities done on the chapters on breathing and respiration .... 78
Table 13: A summary of guidance provided by the support materials .................... 88
LIST OF FIGURES

Figure 1: Flowchart of the research design for the study ........................................ 32
Figure 2: A summary of factors found to be affecting implementation ................... 89
LIST OF APPENDICES

Appendices follow immediately after the list of references:

Appendix A: Workshop programme
Appendix B: Activity-based questionnaires
Appendix C: Teachers’ interview schedule
Appendix D: Curriculum developers’ interview schedule
Appendix E: Teachers’ guides checklist, with data
Appendix F: Textbooks checklist, with data
Appendix G: Ethics clearance letter
Appendix H: Guidelines for the teaching of skills.
Appendix I: Teachers’ interviews transcripts
Appendix J: Curriculum developers’ interviews transcripts