



Mathematics

Stage 6

Writing Brief

**Courses: Mathematics General 1
Mathematics General 2**

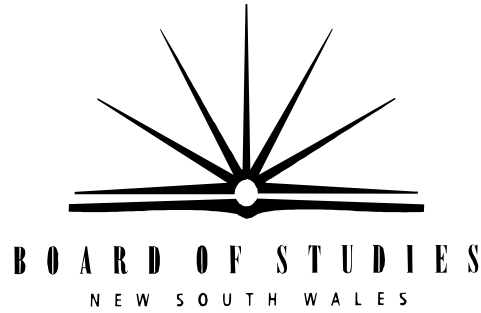
**APPENDICES to the
CONSULTATION REPORT**

September 2007

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Mathematics

Stage 6

Non-calculus-based Courses

Draft Writing Brief Survey

May 2007

Consultation period:

1 May 2007 – 1 June 2007

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*Survey on the Mathematics Stage 6
Non-calculus-based Courses
Draft Writing Brief*

Introduction

The purpose of this survey is to obtain detailed comments from individuals and systems/organisations on the Mathematics Stage 6 Non-calculus-based Courses Draft Writing Brief.

i
**For your
information**

Please comment on both the strengths and the weaknesses of the document.

Comments made by you and others will be taken into account when the draft writing brief is modified.

The final version of the writing brief will provide directions to writers of the syllabus for the Mathematics Stage 6 non-calculus-based courses.

Schools, teachers and other interested individuals and organisations can respond to the draft writing brief via this survey form in one of three ways:

a) written response to:

**Mathematics Curriculum Support Officer
Office of the Board of Studies NSW
GPO Box 5300
SYDNEY NSW 2001**

OR

b) email response to **david.howe@bos.nsw.edu.au**

OR

c) online response through the Board's website at:

www.boardofstudies.nsw.edu.au

The consultation period is 1 May 2007 to 1 June 2007.

Survey Section A: General Information

Please circle the NUMBER corresponding to the most appropriate response.

1. This response is from

an individual currently teaching in a school	1
an individual not currently teaching in a school	2
a school Mathematics faculty	3
a system	4
an organisation	5

Please specify which school/system/organisation

Number of persons contributing to the response _____

2. Type of school/system/organisation in which you work or for whom you are responding

Secondary School	1	Parent Group	6
TAFE College	2	Community Group	7
University	3	Business/Industry Group	8
Statewide Organisation	4	Other (please specify)	9
Branch of an Organisation	5		

3. If the response is from an individual

- a) Position

School-based		Non-school-based	
Classroom teacher	1	Consultant (system/sector)	6
Executive (teaching)	2	Consultant (private)	7
Executive (non-teaching)	3	Tertiary educator	8
Principal	4	Tertiary subject specialist	9
Other (please specify)	5	Parent	10
		Other (please specify)	11

b) Total number of years teaching

Have not taught	1
Up to 3 years	2
4–9 years	3
10–15 years	4
16–25 years	5
26+ years	6

4. If the response is from an individual working in a school or from a school Mathematics faculty

a) type of school		b) size of school	
Government school	1	0–50	1
Non-government systemic school	2	51–150	2
Non-government independent school	3	151–300	3
		301–600	4
		601–1000	5
		> 1000	6
		Other (please specify)	7

c) nature of school **(You may circle more than one)**

Significant representation of Aboriginal and/or Torres Strait Islander students	1	Academically Selective School	4
High percentage of students with language backgrounds other than English	2	Priority School Funding	5
Special School/SSP	3	Other (please specify)	6

d) location of school

Metropolitan area	1
Non-metropolitan town/city	2
Rural area	3
Other (please specify)	4

Survey Section B: Draft Writing Brief (Non-calculus-based Courses)

Please circle the appropriate number and provide comments.

- Key**
- 1 Strongly Agree**
 - 2 Agree**
 - 3 Disagree**
 - 4 Strongly Disagree**

1. The **Rationale** in section 5.1 (p 18).

	Strongly Agree	Agree	Disagree	Strongly Disagree
a. The Rationale adequately describes the nature of Mathematics in broad terms.	1	2	3	4
b. The Rationale reflects a contemporary view of Mathematics.	1	2	3	4
c. The Rationale reflects the purpose of the non-calculus-based courses.	1	2	3	4

Comment:

2. The **Aim** in section 5.2 (p 19).

	Strongly Agree	Agree	Disagree	Strongly Disagree
The proposed Aim adequately describes the overall purpose of the non-calculus-based courses.	1	2	3	4

Comment:

3. The **Objectives** in section 5.3 (p 20).

	Strongly Agree	Agree	Disagree	Strongly Disagree
a. The proposed Objectives demonstrate the intention of the non-calculus-based courses.	1	2	3	4
b. The proposed Objectives adequately define knowledge, skills and understanding and values and attitudes essential for the non-calculus-based courses.	1	2	3	4

Comment:

4. The Content organisation in section 5.4 (p 21).

	Strongly Agree	Agree	Disagree	Strongly Disagree
a. The proposed Content organisation assists understanding of the way the study of the non-calculus-based courses is structured.	1	2	3	4
b. The proposed presentation of content is appropriate for the non-calculus-based courses.	1	2	3	4

Comment:

5. The **Outcomes** in section 5.5 (p 23).

	Strongly Agree	Agree	Disagree	Strongly Disagree
a. The Outcomes for the Preliminary Mathematics General course are appropriate*.	1	2	3	4
b. The Outcomes for the Mathematics General 1 HSC course are appropriate.	1	2	3	4
c. The Outcomes for the Mathematics General 2 HSC course are appropriate.	1	2	3	4

* Outcomes are appropriate if (together with the course content) they clearly express the breadth and depth of study to be undertaken by students. There should not be unnecessary overlap within the set of outcomes or more outcomes than is necessary to serve their purpose.

Comment:

6. The **Content** in section 5.6 (pp 26–39).

	Strongly Agree	Agree	Disagree	Strongly Disagree
a. The proposed Content for the Mathematics General 1 course is appropriate*.	1	2	3	4
b. The proposed Content for the Mathematics General 2 course is appropriate.	1	2	3	4

* Content is appropriate if it is relevant to the aim and objectives of the course and provides the means for students to achieve the stated knowledge, skills and understanding and values and attitudes outcomes, and therefore the intended educational benefits, of the course.

Comment:

7. The **use of technology** in section 5.7 (p 40)

	Strongly Agree	Agree	Disagree	Strongly Disagree
The proposed approach to the use of technology in the HSC examinations is appropriate.	1	2	3	4

Comment:

9. Support Materials in section 7 (p 45).

The Board will provide various materials to support the teaching and learning of the non-calculus-based courses. This will include a support document 'Guide to planning, programming and assessment'. (Professional development and training of teachers for the implementation of the courses is the responsibility of school authorities.)

Please provide your views on the type of support that should be included in the materials to accompany the syllabus:

	Strongly Agree	Agree	Disagree	Strongly Disagree
a. Teaching and learning units	1	2	3	4
b. Advice on programming	1	2	3	4
c. Program overviews	1	2	3	4
d. Advice in relation to teaching 'new' areas of course content	1	2	3	4
e. Teaching suggestions to assist the development of meaningful and engaging units of work	1	2	3	4
f. Sample HSC assessment programs	1	2	3	4
g. Advice on the utilisation of different types of assessment tasks	1	2	3	4
h. Sample assessment tasks	1	2	3	4
i. Suggestions for the utilisation of technology in teaching and learning	1	2	3	4
j. Applications that relate to real world problems	1	2	3	4

Comment:

Appendix B

Focus Group Composition

South Coast (Batemans Bay)

Date: Tuesday 8 May 2007

Time: 4.00 pm – 6.00 pm

	Name	Institution
1	Debra Ford	Batemans Bay High School
2	David Naismith	Batemans Bay High School
3	Paul Davis	Carroll College
4	David Hamaty	Nowra Anglican College
5	Paul Stewart	Nowra Anglican College
6	David Hopkins	St John The Evangelist High School
7	Mark McKinnon	St John The Evangelist High School
8	Paul Stralow	St John The Evangelist High School
9	Peter Szota	St John The Evangelist High School
10	Tony Horsley	St Peters Anglican College Broulee
11	Tony Young	St Peters Anglican College Broulee
12	George Betsis	Ulladulla High School
13	Jose Gonzales	Ulladulla High School
14	Rob Rowland	Ulladulla High School

Riverina (Wagga Wagga)**Date: Wednesday 9 May 2007****Time: 4.00 pm – 6.00 pm**

	Name	Institution
1	Katherine Tooney	Billabong High School
2	Peter Groutenboor	Charles Sturt University – School of Education
3	John McFadyen	Coleambally Central School
4	Trevor Garside	Coolamon Central School
5	Darryl Shoard	Cootamundra High School
6	Leslie Carey	Department of Education and Training – Griffith District Office
7	Bruce Wartom	Department of Education and Training – Wagga Wagga District Office
8	Helen McRae	Finley High School
9	Steven Knox	Junee High School
10	Colleen Rainbird	Kildare Catholic College
11	Col Taylor	Korrungal High School
12	John Seers	Marian College (Griffith)
13	Stacey Donoghue	Mater Dei Catholic College
14	Fay Mowbray	Mount Austin High School
15	Lee Hyland	Murrumbarrah High School
16	Cristie Carroll	St Francis De Sales College
17	Brian Edward	The Riverina Anglican College
18	Catherine Clarke	Wagga Wagga Christian College

**The Mathematical Association of New South Wales (MANSW)
(Office of the Board of Studies)**

Date: Thursday 10 May 2007

Time: 4.00 pm – 6.00 pm

	Name
1	Bernice Beechey
2	Mary Coupland
3	Holly Gyton
4	David Keanan-Brown
5	Glenn Langford
6	Scott Lankshear
7	Sharyn Moses
8	Greg Murty
9	Sue Thomson

Academics (Office of the Board of Studies)

Date: Wednesday 16 May 2007

Time: 4.00 pm – 6.00 pm

	Name	University
1	Dr Bill Franzsen	Australian Catholic University
2	Associate Professor Paul White	Australian Catholic University
3	Dr Michael Cavanagh	Macquarie University
4	Dr Rod Yager	Macquarie University
5	Dr Paul Ayres	University of New South Wales
6	Mr Peter Brown	University of New South Wales
7	Dr Judy Anderson	University of Sydney
8	Dr Michael Stewart	University of Sydney
9	Dr Anne Prescott	University of Technology Sydney
10	Professor Deborah Street	University of Technology Sydney
11	Dr Carmel Coady	University of Western Sydney – Penrith
12	Dr Allan White	University of Western Sydney – Penrith

Metropolitan North and Metropolitan East (Office of the Board of Studies)

Date: Monday 21 May 2007

Time: 4.00 pm – 6.00 pm

	Name	Institution
1	Mia Kumar	Burwood Girls High School
2	Scott McCloud	Cromer High School
3	Cath Whalan	Hornsby Girls High School
4	Carolyn Gavel	Kambala
5	Mark Koenig	Kingsgrove High School
6	Greg Smith	Kingsgrove High School
7	Philippa Lees	Marrickville High School
8	Vicki Johnstone	Narrabeen Sports High School
9	Julia Shea	Newington College
10	Steve Jordan	North Sydney Girls High School
11	Tessa Wigmore	Oxford Falls Grammar School
12	Robyn Crocker	Randwick Boys High School
13	Maria Quigley	Santa Sabina College
14	Thanom Shaw	SCEGGS Darlinghurst
15	Dane McKay	St Pauls Catholic College
16	Mark Gainford	Sydney Boys High School

Western (Bathurst)**Date: Tuesday 22 May 2007****Time: 4.00 pm – 6.00 pm**

	Name	Institution
1	Greg Jones	All Saints' College Bathurst
2	Vince Connor	Catholic Education Office, Bathurst
3	Zeffie Nicholas	Charles Sturt University, Bathurst
4	Keshav Pillai	Denison College, Kelso Campus
5	Hans Stroeve	Denison College, Kelso Campus
6	Kerry Hohol	Department of Education and Training – Orange District Office
7	Peter Hargraves	James Sheahan Catholic High School
8	Robert McLean	James Sheahan Catholic High School
9	Trish Moran	James Sheahan Catholic High School
10	Katrina Watson	James Sheahan Catholic High School
11	Pat Eakin	MacKillop College
12	Sue Lyne	MacKillop College
13	Mark Campbell	Portland Central School
14	Andy Holden	Portland Central School
15	Anne Holden	Portland Central School
16	Mathew Camby	Oberon High School

Hunter (Argenton)

Date: Wednesday 23 May 2007

Time: 4.00 pm – 6.00 pm

	Name	Institution
1	John Griffiths	All Saints St Mary's Campus
2	Rhonda Holley	Belmont High School
3	Craig O'Brien	Bishop Tyrrell Anglican College
4	Lindy Griffiths	Callaghan College
5	Carmel Tapley	Catholic Schools Office
6	Leanne Wilson	Francis Greenway High School
7	Ron Bulley	Hunter Christian School
8	Ken Green	Maitland High School
9	Zoe Cox	Maitland Grossmann High School
10	Brendan Mannion	Newcastle Grammar School
11	Kathy Prudence	Singleton High School
12	Kathryn Holmes	University of Newcastle
13	Nigel Brito	Wadalba Community School

Metropolitan North West and Metropolitan South West (Parramatta)

Date: Monday 28 May 2007

Time: 4.00 pm – 6.00 pm

	Name	Institution
1	Sana Aljrab	Al Faisal College
2	Mick Metwally	Arthur Phillip High School
3	Jenny Dalamagas	Auburn Girls High School
4	Julie Brown	Catherine McAuley Westmead
5	Francis Stephenson	Cerdon College Merrylands
6	Chris Howard	Girraween High School
7	Tom Garvey	Greystanes High School
8	Maree Gary	Holroyd High School
9	Tim Jurd	Homebush Boys High School
10	Ian Woodhouse	James Ruse Agricultural High School
11	Graham Jackson	Macarthur Girls High School
12	Cecilia Bird	Macquarie Boys Technology High School
13	Piv Huot	OLMC Parramatta
14	Michael Canty	Parramatta Marist High School
15	Sue Hammond	Tara Anglican School
16	Justin Walkden-Brown	The King's School

North Coast (Coffs Harbour)**Date: Wednesday 30 May 2007****Time: 4.00 pm – 6.00 pm**

	Name	Institution
1	Mike Hastings	Bishop Druitt College
2	Di Smith	Bowraville Central School
3	Cindy Ham	Coffs Harbour Christian Community School
4	Kevin Walker	Coffs Harbour Senior College
5	Matt Heaney	Dorrigo High School
6	Colin Lang	Grafton High School
7	Paul Bastick	John Paul College
8	Robyn Walsh	Macksville High School
9	Sharon Osborne	Macleay Vocational College
10	Greg Laforest	McAuley Catholic College
11	Kerry Hunt	Orara High School
12	Doug Willis	Orara High School
13	Paul Rickmanus	St Columba Anglican School
14	Denise Puzas	St Pauls Kempsey
15	Trevor Watson	Toormina High School
16	Helen Young	Woolgoolga High School

North West (Armidale)**Date: Thursday 31 May 2007****Time: 4.00 pm – 6.00 pm**

	Name	Institution
1	Janette Holmes	Armidale High School
2	Anne Parnell	Armidale High School
3	Tony Jones	Duval High School
4	Warren McElroy	Duval High School
5	Lachlan Webb	Duval High School
6	Shirley Cooke	New England Girls' School
7	Don Hitchcock	New England Girls' School
8	Stephen Chapman	O'Connor Catholic College
9	Tony Dubois	O'Connor Catholic College
10	Ian Tonkin	O'Connor Catholic College
11	Kim Bastock	Presbyterian Ladies College
12	Robyn Hadfield	Presbyterian Ladies College
13	John Pegg	SiMERR Centre, University of New England
14	Greg Scott	SiMERR Centre, University of New England
15	Will Caldwell	The Armidale School
16	Michael Inglis	The Armidale School

Western (Broken Hill)*

Date: Monday 4 June 2007

Time: 4.00 pm – 6.00 pm

	Name	Institution
1	Noel Madden	Broken Hill High School
2	Robert Schofield	Broken Hill High School
3	Adam Forrester	Menindee Central School
4	Christine Cutting	Willyama High School
5	Greg Mate	Willyama High School
6	Grant Shepherd	Willyama High School
7	Sam Thayagaran	Willyama High School

* The participant list established for the Western (Broken Hill) Focus Group Meeting included teachers who would participate in the meeting via video-conference links to Coomealla Central School and Menindee Central School. Unfortunately, due to a technical problem just prior to the meeting, the link to Coomealla Central School was unable to be made.

Appendix C

Focus Group Questions

Mathematics Stage 6 Non-calculus-based Courses Draft Writing Brief

1. Rationale

What comments do you have about the proposed Rationale? (p 18)

2. Aim

What comments do you have about the proposed Aim? (p 19)

3. Objectives

What comments do you have about the proposed Objectives? (p 20)

4. Content Organisation

What comments do you have about the proposed Content Organisation? (p 21)

5. Outcomes

What comments do you have about the proposed Outcomes? (pp 23–25)

6. Content

What comments do you have about the proposed Content? (pp 26–39)

7. Use of technology

What comments do you have about the proposed approach to the use of technology in HSC examinations? (p 40)

8. Assessment and HSC Examination

What comments do you have in relation to the Assessment and HSC Examination section of the draft writing brief? (p 41)

9. Support Materials

What comments do you have in relation to the Support Materials section of the draft writing brief? (p 45)

10. What is your overall evaluation of the draft writing brief?