



Sharing Ideas on a differentiated curriculum

Name _____ School _____

Email Address _____ Country _____

Differentiated learning involves providing students with different avenues to acquiring content; to processing, constructing, or making sense of ideas; and to developing teaching materials so that all students within a classroom can learn effectively, regardless of differences in ability.

Differentiated learning, according to Carol Ann Tomlinson (as cited by Ellis, Gable, Greg, & Rock, 2008, p. 32), is the process of 'ensuring that what a student learns, how he/she learns it, and how the student demonstrates what he/she has learned is a match for that student's readiness level, interests, and preferred mode of learning'. Differentiation stems from beliefs about differences among learners, how they learn, learning preferences and individual interests. 'Research indicates that many of the emotional or social difficulties gifted students experience disappear when their educational climates are adapted to their level and pace of learning.' Differentiation in education can also include how a student shows that they have mastery of a concept. This could be through a research paper, role play, podcast, diagram, poster, etc. The key is finding how your students learn and displays their learning that meets their specific needs.

http://en.wikipedia.org/wiki/Differentiated_instruction

In light of the above definition, what **academic** subjects, programs or initiatives have been particularly successful in your school? Please be specific.

List the names of any specific subjects that you may like to share with other members of the workshop.

What **co-curricular** programs or initiatives have been particularly successful in your school? Give details.

Why do you think that these programs have been successful? What makes it all work?

But not all teacher view students as reluctant learners. And this group of teachers resist, when asked to perform the function of a sheep dog, rounding up the reluctant learners and directing them down paths where students would rather not go. These teachers would prefer to engage the students, rather than compel them to act against their will. These teachers argue that learning is not just about imposed standards and standardisation, it is about personal growth including initiative and responsibility.

Loader, David, *Jousting for the New Generation*, Acer Press, Melbourne, 2007

In light of the above extract, to what extent have any of these programs helped to stimulate student initiated learning and development?

YEAR 10 2012 SUBJECT CHOICE FORM

2011 Year Level:

Student Code:

Name:

Compulsory Units

Issues in Running the Country	10BXI
Ideal and Reality: American History (Semester 1)	10HXG
Assassins & Terrorists (Semester 2)	10HXA
OR	
Towards a Violent Century (VCE focus) (Semester 2)	10HXV
Form Period	10FXM
Physical Development	10PXD

Chapel	10CXH	
SELECT ONE	10RXE	*10RXE*
Religion: <i>Ethics</i> <input type="checkbox"/>		
OR		
Religion: <i>God and Art</i> <input type="checkbox"/>	10RXA	*10RXA*
OR		
Living Faiths: World Religions and World Views <input type="checkbox"/>	10RXL	*10RXL*
OR		
The X (Chris) Files <input type="checkbox"/>	10RXF	*10RXF*

Based on results and testing in Year 9, the Mathematics Faculty will select students for Accelerated, Enrichment, Mainstream and Modified Mathematics courses. Students will be notified regarding their selection in these courses.

SEMESTER 1

Place a tick in **ONE** box.

Plays and Playwrights	<input type="checkbox"/>	10EPC	*10EPC*	Theme Study 2	<input type="checkbox"/>	10ETC	*10ETC*
English as a Second Language	<input type="checkbox"/>	10ESC	*10ESC*	Writing Workshop 2	<input type="checkbox"/>	10EWC	*10EWC*
* Literary Legends	<input type="checkbox"/>	10EXLL	*10EXLL*				

SEMESTER 2

English Core	<input type="checkbox"/>	10EXS	*10EXS*	English as a Second Language	<input type="checkbox"/>	10ESD	*10ESD*
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STEP 1: SELECT COURSE PREFERENCES

Subjects marked with an asterisk * are Year 10 Only Enhancement Units

While students may select Enhancement Units, acceptance into these units will be dependent on students' results.

Elective Units

To complete your selection of elective units you must choose a total of 10 units from the subjects listed below and over the page. These units will be studied sometime in Semester 1 or Semester 2.

Each LOTE you choose counts as 3 units. If you wish to continue with a LOTE subject, place a tick in the box next to your choice.

Language other than English (LOTE)

Chinese Advanced 3 and 4	<input type="checkbox"/>	10LCG	*10LCG*	10LCZ	*10LCZ*	10LCH	*10LCH*
Chinese as a Second Language 3 and 4	<input type="checkbox"/>	10LCC	*10LCC*	10LCX	*10LCX*	10LCD	*10LCD*

French 3 and 4	<input type="text"/>	10LFC	* 10LFC *	10LFZ	* 10LFZ *	10LFD	* 10LFD *
German 3 and 4	<input type="text"/>	10LGC	* 10LGC *	10LGZ	* 10LGZ *	10LGD	* 10LGD *
* LOTE & Communication (French)	<input type="text"/>	10LXFC	* 10LXFC *	10LXFD	* 10LXFC *	10LXFE	* 10LXFE *
			*				

INSTRUCTIONS FOR SELECTING SUBJECTS FROM THE REMAINING ELECTIVE UNITS

If you **have not** chosen a LOTE subject from the list above mark your electives with the numbers **1 to 10** in **order of preference**. Write a '1' next to your **most preferred** elective unit, a '2' next to your **second most preferred** elective unit, and so on until you have selected a total of '10' units.

If you **have** selected a LOTE subject from the above list then you must write your next preference as number **4**, and so on to number **10**. **If you have selected two LOTE subjects you will require approval from your Head of Year.**

Subjects marked with an asterisk * are Year 10 Only Enhancement Units

While students may select Enhancement Units, acceptance into these units will be dependent on students' results.

The Arts (Art, Drama, Music)

Foundation Studies in Art & Design	<input type="text"/>	10AFS	* 10AFS *	* The Great Theatre of the Modern Age	<input type="text"/>	10DXMT	* 10DXMT *
Advanced Painting Methods	<input type="text"/>	10AAP	* 10AAP *	Songwriting	<input type="text"/>	10ISW	* 10ISW *
Digital Animation	<input type="text"/>	10ADA	* 10ADA *	Modern Band Techniques	<input type="text"/>	10IBT	* 10IBT *
Drawing for Design	<input type="text"/>	10ADD	* 10ADD *	Music Skills Enhancement	<input type="text"/>	10ISE	* 10ISE *
Media Studies	<input type="text"/>	10AMS	* 10AMS *	Music Extensions	<input type="text"/>	10IME	* 10IME *
Stop-Motion Animation	<input type="text"/>	10AMA	* 10AMA *	Music Styles	<input type="text"/>	10IMS	* 10IMS *
Photography	<input type="text"/>	10APX	* 10APX *	Music Production	<input type="text"/>	10IMP	* 10IMP *
* The Great Theatre of the Past	<input type="text"/>	10DXDT	* 10DXDT *	Music Technology	<input type="text"/>	10IMT	* 10IMT *
			*				

Commerce

History of Business	<input type="text"/>	10BHB	* 10BHB *	Response to One World	<input type="text"/>	10BXW	* 10BXW *
Australian Entrepreneurs	<input type="text"/>	10BAE	* 10BAE *	Business Computing	<input type="text"/>	10BBC	* 10BBC *
Economics in Society	<input type="text"/>	10BXS	* 10BXS *	Savings and Investment	<input type="text"/>	10BSI	* 10BSI *

Geography

Made in Australia	<input type="text"/>	10GAM	* 10GAM *	Life in the Extremes	<input type="text"/>	10GXL	* 10GXL *
Australia & its Asian Neighbours	<input type="text"/>	10GAN	* 10GAN *	Meteorology & Climatology	<input type="text"/>	10GXM	* 10GXM *
Rivers and Beaches	<input type="text"/>	10GBR	* 10GBR *	Urbanisation : Growth of the City	<input type="text"/>	10GXU	* 10GXU *
Environmental Issues	<input type="text"/>	10GEI	* 10GEI *	Developmental Issues	<input type="text"/>	10GXI	* 10GXI *

Hazard Geography	<input type="checkbox"/>	10GHZ	* 10GHZ *	*Action on Sustainability: Now and in the Future	<input type="checkbox"/>	10GXAS	* 10GXAS *
* Out in the Field: Applied Geography	<input type="checkbox"/>	10GXOF	* 10GXOF *				

History

Beginner's Guide to Ideas 1	<input type="checkbox"/>	10HAP	* 10HAP *	* People & Power in the Medieval World	<input type="checkbox"/>	10HXPP	* 10HPP *
A History of Espionage	<input type="checkbox"/>	10HES	* 10HES *	Australians at War 1	<input type="checkbox"/>	10HWO	* 10HWO *
History of Flight	<input type="checkbox"/>	10HFL	* 10HFL *	Australians at War 2	<input type="checkbox"/>	10HWT	* 10HWT *
Beginner's Guide to Ideas 2	<input type="checkbox"/>	10HMP	* 10HMP *	*War and Religion	<input type="checkbox"/>	10HXWR	* 10HXWR *
Winners & Losers in History	<input type="checkbox"/>	10HWL	* 10HWL *	Politics: Democracies and Dictatorships	<input type="checkbox"/>	10HPD	* 10HPD *

Hospitality

Cooking 1	<input type="checkbox"/>	10OCX	* 10OCX *	Cooking 2	<input type="checkbox"/>	10OCY	* 10OCY *
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Information Technology

Computer Building and Maintenance	<input type="checkbox"/>	10CBC	* 10CBC *	Multimedia Tools and Techniques	<input type="checkbox"/>	10CMT	* 10CMT *
Computer Games Programming	<input type="checkbox"/>	10CGP	* 10CGP *	Operating Systems and Networking	<input type="checkbox"/>	10COS	* 10COS *
Programming	<input type="checkbox"/>	10CBP	* 10CBP *	Web Authoring	<input type="checkbox"/>	10CWA	* 10CWA *
Digital Video Movie Making	<input type="checkbox"/>	10CDV	* 10CDV *	*Unit 1: IT	<input type="checkbox"/>	10CXIT	* 10CXIT *
Building and Programming Electronic Systems	<input type="checkbox"/>	10CES	* 10CES *				

Mathematics

Mathematics in Commerce & Financial Systems	<input type="checkbox"/>	10MCF	* 10MCF *	Discrete Mathematics	<input type="checkbox"/>	10MXM	* 10MXM *
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Physical Education

Racquet & Individual Sport	<input type="checkbox"/>	10PRI	* 10PRI *	Sports Physiology	<input type="checkbox"/>	10PXP	* 10PXP *
Sports Administration	<input type="checkbox"/>	10PXA	* 10PXA *	Passion to Play AFL	<input type="checkbox"/>	10PPA	* 10PPA *

Science

Beasts on Land, in Air and in Water	<input type="checkbox"/>	10SBL	* 10SBL *	*Preparatory Chemistry	<input type="checkbox"/>	10SXCH	* 10SXCH *
Bad Science	<input type="checkbox"/>	10SBS	* 10SBS *	*Preparatory Physics	<input type="checkbox"/>	10SXPH	* 10SXPH *

Chemistry Around You (Practical)	<input type="checkbox"/>	10SCY	*10SCY*	*Introduction to Psychology	<input type="checkbox"/>	10SXPY	*10SXPY*
Space Science	<input type="checkbox"/>	10SLS	*10SLS*	Science of Conflict	<input type="checkbox"/>	10SOC	*10SOC*
Origins	<input type="checkbox"/>	10SOR	*10SOR*	*Thinking Like an Electrical Engineer	<input type="checkbox"/>	10SXTE	*10SXTE*
Robotics	<input type="checkbox"/>	10SRO	*10SRO*	Genetics, Our Future	<input type="checkbox"/>	10SGE	*10SGE*
Sports Medicine	<input type="checkbox"/>	10SSM	*10SSM*				

Technology

Furniture Structures	<input type="checkbox"/>	10TFS	*10TFS*	Motor Vehicle Appreciation	<input type="checkbox"/>	10TVA	*10TVA*
Things that Move	<input type="checkbox"/>	10TTM	*10TTM*				

STEP 2: REVIEW PROPOSED COURSES

The grid below MUST be completed prior to the submission of this form. It is vital that each student has considered the minimum course requirements and a balanced course over Years 9 and 10. Those subjects available as Year 10 Enhancement Units are listed over the page.

LOTE

Students who take a double LOTE course in Year 10 will be allowed a reduced number of compulsory units
 Example: Geography - 2 units, Science 2 - units. Please see your Head of Year for further advice.

AREAS OF STUDY (AOS)

We have arranged our other units into Areas of Study (AOS). You are required to select a certain number of units from particular AREAS OF STUDY. This makes sure that you receive the broad general education for which Trinity is noted.

To ensure you have selected courses that will meet the curriculum requirements, please write your subject selections (record subject codes only) in the box below under "RECORD OF SUBJECT SELECTIONS" and then check that you have selected the appropriate number of units as indicated in the checklist below.

Record of Subject Selections

YEAR 9 SUBJECT COMPLETED Please write the subject codes of the 9 Electives you have completed in 2010 below	YEAR 10 SUBJECT SELECTIONS Please write the subject codes of the 10 Electives you have selected for 2011 below

Please note that staff may recommend students for Curriculum Support.

STEP 3: COURSE REQUIREMENT CHECK

Please refer to the above course selections and check that you have met the curriculum requirements below and place a tick in the box.

Area of Study	Total Number of Minimal Units that must be completed by the end of Year 10	Place a tick in the box below if the requirement is met over a 2 year period.
The Arts	2 Elective Units	<input type="checkbox"/>

IMPORTANT
 We recommend that you take a photocopy of this information for your reference.

(Art, Music & Drama)		
Commerce	1 Compulsory Unit and 1 Elective Unit	
Geography	3 Elective Units	
Science	3 Elective Units	

**Please return this form to Mr Bishop no later than:
MONDAY 2 AUGUST 2011**

Parents Signature: _____

Student Signature: _____

Date: / / 2011

Date: / / 2011

Course Selections Approved by Head of Year

Head of Year Signature: _____

Date: / / 2011

2012 Subject Course Codes

Subjects marked with * are Year 10 Enhancement Units

<p>The Arts (Art, Drama, Music) 10ADD Drawing for Design 10AFS Foundation Studies in Art & Design 10APP Advanced Painting Methods 10ADA Digital Animation 10AMA Stop-Motion Animation 10AMS Media Studies 10APX Photography 10ISW Songwriting 10IBT Modern Band Techniques 10ISE Music Skills Enhancement 10IME Music Extensions 10IMP Music Production 10IMS Music Styles 10IMT Music Technology 10DXDT * The Great Theatre of the Past 10DXMT * The Great Theatre of the Modern Age</p> <p>Commerce 10BHB History of Business 10BBC Business Computing 10BSI Savings and Investments 10BXS Economics in Society 10BXW Response to One World 10BAE Entrepreneurs</p> <p>Curriculum Support 10QCS Curriculum Support</p> <p>English 10EXLL * Literary Legends 10EPC Plays and Playwrights 10ESC English as a 2nd Language 10ETC Theme Study 10EWC Writing Workshop</p> <p>Geography 10GAM Made In Australia 10GAN Australia & its Asian Neighbours 10GBR Rivers and Beaches 10GEI Environmental Issues 10GXI Development Issues 10GXL Life in the Extremes 10GHZ Hazards Geography 10GXU Urbanisation 10GXM Meteorology & Climatology 10GXOF * Out in the Field: Applied Geography 10GXAS * Action on Sustainability: Now and in the Future</p>	<p>History 10HAP Beginner's Guide to Ideas 1 10HES A History of Espionage 10HFL History of Flight 10HMP Beginner's Guide to Ideas 2 10HWL Winners & Losers in History 10HWO Australians at War 1 10HWT Australians at War 2 10HXWR *War and Religion 10HXPP * People and Power in the Medieval World 10HPD Politics: Democracies and Dictatorships</p> <p>Hospitality 10OCX Cooking 1 10OCY Cooking 2</p> <p>Information Technology 10CBC Computer Building and Maintenance 10CGP Computer Games Programming 10CBP Programming 10CDV Digital Video Movie Making 10CES Building and Programming Electronic Systems 10CMT Multimedia Tools and Techniques 10COS Operating Systems and Networking 10CWA Web Authoring 10CXIT *Unit 1: IT</p> <p>LOTE 10LCG Chinese Advanced 10LCC Chinese as a Second Language 10LFC French 10LGC German 10LXFC * LOTE & Communication (French)</p> <p>Mathematics 10MCF Mathematics in Commerce & Financial Systems 10MXM Discrete Mathematics</p>	<p>Physical Education 10PRI Racquet & Individual Sport 10PPA Passion to Play 10PXA Sports Administration 10PXP Sports Physiology</p> <p>Religion 10RXE Ethics 10RXL Living Faiths: World Religions and World Views 10RXF The X (Christ) Files 10RXA God and Art</p> <p>Science 10SBL Beasts on Land, in Air and in Water 10SBS Bad Science 10SCY Chemistry Around You (Practical) 10SLS Space Science 10SXTE *Thinking Like an Electrical Engineer 10SOR Origins 10SXCH *Preparatory Chemistry 10SSM Sports Medicine 10SOC Science of Conflict 10SGE Genetics, Our Future 10SRO Robotics 10SXPY *Introduction to Psychology 10SXPH *Preparatory Physics</p> <p>Technology 10TFS Furniture Structures 10TTM Things that Move 10TVA Motor Vehicle Appreciation</p>
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TRINITY GRAMMAR SCHOOL, KEW

PROPOSAL: NEW YEARS 9/10 UNIT

INTRODUCTION

FACULTY

Science

PROPOSED UNIT TITLE

Stretching the Boundaries

NOMINATED TEACHER(S)

Doctor X (Note the course is designed so that it is not dependent on a particular staff member. Depending on the interests of the staff/students different content strands can be used to teach the key understandings.)

COURSE DETAILS

COURSE OUTLINE

The overarching essential questions are:

1. How do scientists investigate the natural world?
2. What sets the methods of Science apart from the methods of other disciplines?

The content broadly covers:

- The use of models in science: model for forces between particles, model for surface energy, model for surface area to volume ratio.
- Investigations of interactions at boundaries.

There are many available content areas and a selection can be made to explore boundaries and the ways in which scientists investigate the natural world.

KEY UNDERSTANDINGS

Students should

1. Grow their understanding of a range of Scientific Methodologies and of some limitations in these;
2. Know and understand that a surface is an interface between two or more phases; and
3. Be able to apply these scientific understandings in a range of contexts by:
 - A. Relating the properties of materials to the forces between their constituent particles;
 - B. Describing some ways in which changes in the surface energy of a liquid can alter its interaction with adjacent materials (particularly as these ideas can be applied to surfactants);
 - C. Applying their knowledge of the properties of materials (A above) and of surface energies (B above) to build deeper understanding of some biological, chemical, geological or physical phenomena which occur at boundaries;
 - D. Knowing the relationship between surface area and volume, and applying this understanding in a selection of biological, chemical, geological or physical contexts;

ASSESSMENT METHODS

- Practical investigations
- Written reviews of scientific models.
- Tests
- Projects- both theoretical and practical

INTENDED BENEFITS

This unit is proposed as a Year 10 enhancement unit. The Essential questions should enable the students to learn more about the methods of science and for them to realise that understanding the natural world is an ongoing endeavour which involves models and data collection. The content is designed to be challenging and therefore suitable for our more able Yr 10 students.

CURRICULUM RELATIONSHIPS

PRE-REQUISITES

A global B+ and a B+ average in science subjects undertaken in Yr 9.

APPROPRIATE YEAR LEVEL

Year 10 only

ENHANCEMENT AND VCE

Year 10 General Enhancement

RESOURCES

STAFFING

The unit is not dependent on one staff member. Heather Evans would like to teach it in the first year. The course content has been written so that a variety of pathways can be followed to teach the key understandings. As a consequence, the unit could be taught by a number of our current science staff.

PROFESSIONAL LEARNING

Professional reading to enhance staff understanding of the key understandings and some time to collect more resources.

FACILITIES

Science class room.

CONSULTATION

INTRA-FACULTY

The unit has been discussed at a faculty meeting and drafts of the plans for the unit circulated.

RESOURCES

No additional resources are required.

Application Form

Yr 10 Thesis Study Unit - Semester 2

Name: *Benjamin X*

Form: *10C*

Current grade average in all subjects: *A+*

Area of interest: *History (Renaissance)*
(eg. Drama, Science, Engineering, Literature)

Project Outline (approx. 100 words in length):

Medieval Christianity was divided into the Eastern Orthodox Church (Greek) and the Roman Catholic Church (Latin). Resultantly, in 1431 Pope Eugene IV changed the course of a council summoned by his predecessor (Martin V) through moving it to Ferrara and then to Florence, attempting to achieve unification with some of the Eastern Churches. This thesis will discuss the prospects of the Council of Florence (1431 – 1445) in four areas. Firstly, the effect that the council had on Florence, the city's culture and art; secondly, the effect that the council had on the standing of the Medici Family and the political leverage that it gave them as benefactors of the council; thirdly, the purpose of the council and reasons for its failure; and, finally, it will examine how the council's failure to achieve unification affected the Great Schism in regard to the fall of Constantinople to the Ottoman Turks.

Approx word length of project: *10,000 words*

Suggestions for staff mentor: *Mr. X*

THESIS UNIT: 2010

Student's Name:	Form:	Thesis:	Mentor:
A	10A	Cloud Computing: Implications for the future	Mr Rob Flavell (RJF) *Primary mentor Mr James Lawson (JAL)
B	10C	Evolutionary Biology: The Evolution of the Universe	Dr Brad Rundle (BJR)
D	10C	Historical Novella (Rwandan Genocide): Men of Africa	Mr Nick Browne (NGB)
D	10C	Across the Great Divide: A Political History of Renaissance Christianity	Mr Nick Smith (NGS)
H	10D	Biological Field Study & DNA Analysis of the ? Wasp	Dr Brad Rundle (BJR)
H	10D	The Internet & Our Brain (Technology use & Brain plasticity)	Mr Simon Le Plastrier (SCL) *Primary mentor Rev Matt Campbell (MRC)
H	10F	The Economy of China (The rise of China)	Ms Jennifer Poore (JJP)
I	10F	Fantasy Novella: Artemis	Ms Kate Hall (CAH)
K	10D	Novella: Ethics & Genetic Engineering (Title TBC)	Mr Joe Hewett (JAH) * Primary mentor Rev Chris Leadbeatter (CJL)
L	10E	Biological Field Study & DNA Analysis of the ? Wasp	Dr Brad Rundle (BJR)
M	10F	The Battle of Britain: A Turning point in World War 2	Dr Dianne McDonald (DCM)
M	10F	Art Thesis: Hand drawn Comic	Mr John Waller (JTW) *Primary mentor Rev Matt Campbell (MRC)
N	10C	Social Networking: Effects on Youth Today	Mr Tim Bence (TEB)
P	10F	Menageries of Europe: A compulsion for the Exotic (Private Zoos of the Renaissance)	Mr Nick Smith (NGS)
R	10F	Novella: Awakening	Mr Christopher Bantick (CDB)
S	10A	Astrophysics: A Guide to the Cosmos	Mr Andrew Settle (ATS)
S	10F	Art Thesis: My Creative Outlet	Ms Genevieve Dillon (GMD)
T	10B	Psychology: The Psychology of attraction (Original research)	Ms Caroline Angus (CEA)

THESIS UNIT: 2010