## PICTON HIGH SCHOOL

Creating Opportunities Achieving Success



## YEAR 12 HSC Extension 1 Mathematics

## 2018 Half-Yearly Examination

Due Date: 14 <sup>th</sup> March 2018	Assessment Name: Half-Yearly Examination
Wednesday Week 7	
Mark: /40	Weighting: 30%
	Length: 70 minutes

SYLLABUS OUT	COMES TO BE ASSESSED:	
HE1 Appreciates the interrelationships between ideas drawn from different areas of mathematics		
HE2 Uses inductive reasoning in the construction of proofs		
HE4 Uses the relationship between functions and derivatives		
HE6 Determines integrals by reduction to a standard form through a given substitution		
HE7 Evaluates	mathematical solutions to problems and communicates them in an appropriate form	
DIRECTIVES TO	BE ASSESSED:	
Uses	To achieve a solution by using mathematical processes	
Appreciates	To understand fully, grasp the full meaning of	
Determines	To establish exactly by calculation	
Evaluates	To find a numerical expression or equivalent for an equation, formula, or function	
Communicate	s To share or exchange information or ideas	
TASK DESCRIPT	FION:	
You will comple	ete a 70 minute exam, with a five minutes reading time, covering the Extension 1 Mathematics	
topics listed below. Note Preliminary outcomes will be tested as a part of these topics.		
The exam will involve 10 multiple choice questions and 2 extended response questions of equal value.		
A board approved formulae sheet is permissible		
The exam will consist of -		
Section 1 – ten multiple choice questions worth 10 marks (1 mark each)		
Section 2 – Two extended response questions worth 30 marks (15 marks each)		
The topics which may be assessed are:		
Further Inequations		
<ul> <li>Further Graphs and Curve Sketching</li> </ul>		
Further Trigonometry		
Angle Between Two Lines		
Ratios		
	Properties	
The Pa		
	mials 1 and 2	
	tations and Combinations	
-	al Theorem	
Equipment required:		
	approved scientific calculator	
<ul> <li>Pens, r</li> </ul>	uler, pencils	
ASSESSMENT CRITERIA – STUDENT CHECKLIST:		
*Have you revised these topics?		
*Are you familiar with the formula sheet and any fomulae you need to learn?		

## Check your assessment booklet for the PHS Assessment Policy

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