



MATHEMATICS ASSESSMENT TASK NOTIFICATION

YEAR 10 Pathway 3 2021

Task Number:	4
Topic/s:	Non-Linear Relationships (Parabola only), Trigonometry and Bivariate Data
Weighting:	35%
Due Date:	15/11/2021 (Week 7)
Time:	50 minutes
Venue:	In class

Outcomes to be Assessed:

MA5.1-1WM uses appropriate terminology, diagrams and symbols in mathematical contexts
MA5.1-3WM provides reasoning to support conclusions that are appropriate to the context
MA5.1-7NA graphs simple non-linear relationships
MA5.2-10NA connects algebraic and graphical representations of simple non-linear relationships
MA5.3-9NA sketches and interprets a variety of non-linear relationships
MA4-16MG applies Pythagoras' theorem to calculate side lengths in right-angled triangles, and solves related problems
MA5.1-10MG applies trigonometry, given diagrams, to solve problems, including problems involving angles of elevation and depression
MA5.2-13MG applies trigonometry to solve problems, including problems involving bearings
MA5.3-15MG applies Pythagoras' theorem, trigonometric relationships, the sine rule, the cosine rule and the area rule to solve problems, including problems involving three dimensions
MA5.2-3WM constructs arguments to prove and justify results
MA5.2-16SP investigates relationships between two statistical variables, including their relationship over time

Task: IC

Electronic Submission of Task:
N/A

Required Equipment: Calculator, Ruler, Protractor, Pair of Compasses, Pens, Pencil

Please Note:

1. The College policy regarding malpractice, including cheating and plagiarism, late submission and absenteeism will apply. Please refer to moodle.pmaclism.catholic.edu.au (Assessment Tasks – Rules and Procedures). Stage 6 students should also refer to their *2021 Assessment Handbooks*.
2. Email is NOT an accepted form of assessment task submission.
3. If you are going to be away for any reason, including school based activities, you must fill in a "Planned Absence Notification" form and submit to the Assistant Principal Curriculum or the Leader of Curriculum. This form can be found at <http://moodle.pmaclism.catholic.edu.au/mod/page/view.php?id=17637>.

4. Students who do not bring a calculator to the task will not be able to borrow one from the school unless pre-organised with their class teacher.

Course Content Tested		Suggested Revision
Non-Linear Relationships	Signpost 10 – Chapter 7 (7:04 – 7:05) Only looking at the parabola	Signpost Chapter 7 “Diagnostic Test” page 243 Questions 2-9 Signpost Chapter 7 “Review” page 245 Questions 3 and 4 Maths Online Lessons: 4501, 8249, 8250, 4218, 6463
Trigonometry	Signpost 10 – Chapter 11 Ex 11.03 - 11.07	Signpost Chapter 11 “Maths Terms” page 392 Signpost Chapter 11 “Diagnostic Test” page 393 Questions 4 -8 Maths Online Lessons: 4294, 4295, 4287, 4288, 4289, 4290, 4291, 4292, 4293, 4296
Bivariate Data	Signpost 10 – Chapter 9 Ex 9.03 - 9.07	Signpost Chapter 9 “Maths Terms” page 337 Signpost Chapter 9 “Diagnostic Test” page 340 Questions 6 -10 Maths Online Lessons: 6571,6579,5345
Further Information		
Suggested resources for further questions; ✓ Class Handouts		