



Task Number	1	Task Name	Intro to Vectors Take Home Task
Course	Mathematics Extension 1	Faculty	Mathematics
Teacher	Mr Prince	Head Teacher	Mrs Humphrys
Issue date	Term 4, Week 7	Due date	Friday 6.12.12 (3.15pm)
Focus (Topic)	Intro to Vectors	Task Weighting	30%

Outcomes

ME12-2	A student applies concepts and techniques involving vectors and projectiles to solve problems
ME12-6	A student chooses and uses appropriate technology to solve problems in a range of contexts
ME12-7	A student evaluates and justifies conclusions, communicating a position clearly in appropriate mathematical forms

Task description

This is a take home assessment, it has **8** tasks. **Clearly label all 8 Tasks**

A copy of the Assessment Task notification is on Google classroom. The Google classroom code is [5gswokw](#)

PLAGIARISM: Marks will be deducted if students breach the NESA guidance ‘All My Own Work’, specifically: Plagiarism.

Marking Guidelines

ASSESSMENT CRITERIA: Students will be assessed on their ability to: completed with clear, accurate, and detailed responses. Evidence of deep understanding and critical analysis. Make calculations, notation, and reasoning are accurate and precise. Be consistent and correct using of vector notation throughout (e.g., bold, arrows, matrices). Students must include accurate and clear diagrams illustrating all vectors and relationships. Ensure explanations are thorough, clear, and logically structured. Students must demonstrate clear understanding of scalar multiplication, with accurate calculations and explanations of scaling effects. Confidently execute midpoint and magnitude calculations are accurate and fully explained. Work of a high standard will include ; professionally presentation, be well-organized, and easy to follow. Exemplary samples will demonstrats creativity and critical thinking through challenge task.

Note:

- What if a student is absent from a lesson? - It is the students responsibility to catch up on any missed work due to absences
- Solutions to questions must be in the student’s own handwriting, Desmos and Geogebra files must be ‘shareable’.
- All work submitted must be the students independent work as demonstrated in the “All my own work” modules