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Year 11 Mathematics Advanced

Term 2 Assessment Task 2024

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| **TOPIC**: Trigonometry and Function Transformations | **MARKS:** /39 |
| **SUBMISSION REQUIREMENTS:**  Due: **Wednesday 22nd May 2024** (Week 4) – Period 4 | **WEIGHTING:**  30 % |
| **OUTCOMES TO BE ASSESSED:**  **MA11.1 - Uses** algebraic and graphical techniques to solve, and where appropriate, compare alternative solutions to problems**MA11.3 - Uses** the concepts and techniques of trigonometry in the solution of equations and problems involving geometric shapes  **MA11.8 - Uses** appropriate technology to investigate, organise, model and interpret information in a range of contexts  **MA11.9 -** Provides **reasoning** to support conclusions which are appropriate to the context | |
| **DIRECTIONAL VERBS:**  **Apply –** Use, utilise, employ in a particular situation  **Reasoning -** Action of thinking about something in a logical, sensible way | |
| **TASK DESCRIPTION:**  This task consists of a take home investigative assignment as detailed in in this document. Solutions may be presented in this document or in a separate document. Electronic submissions may be emailed to [andrew.dye@det.nsw.edu.au](mailto:andrew.dye@det.nsw.edu.au) or uploaded to Canvas before the due date.  This practical and investigative assignment involves the application of Trigonometry to measurement problems and the creation of a design made up from the transformation of standard functions. | |
| **ASSESSMENT CRITERIA:**  Students will complete the assignment in this document and submit this document for marking on or before the due date.  When the task is marked students will receive feedback outlining the strengths of their work and aspects which could have been improved. This will be done using the rubric contained in this booklet. | |