

You will apply Trigonometric ratios and Pythagoras Theorem to right-angled triangles.

Building a clinometer	You have attempted to build a clinometer	You have built a clinometer with teacher resources and help	You have built a clinometer using your own equipment	You have built a clinometer accurately
Application of Clinometer and Trigonometry	You have attempted to find some simple unknown lengths of a right angle triangle using a clinometer	You have found simple unknown lengths of a right angle triangle using a clinometer	You have applied the knowledge of clinometer and found unknown lengths of a right angle triangle	You have applied the right-angle triangle formula accurately showing all the steps clearly in solving trigonometry problems
Using the appropriate formula in the presentation	You have attempted a few of the ideas and steps, but the purpose is unclear in your presentation	You have covered a few of the ideas and steps with a fairly clear purpose in your presentation	You have established a purpose early on and maintained focus for most of the presentation	established a purpose early on and maintained a clear focus throughout the presentation
Suggested insightful ideas for real-life practical use	You did not use the angle of depression in your calculations	You have attempted to prove that your angle of depression measured is accurate by using the inverse operation	You have proved that your angle of depression measured is accurate by using the inverse operation	Your conclusion is justified by linking your findings, such as the angle and angle of depression and given an example of a real-life application.
Time Management	You have not submitted your assessment	You have not submitted your assessment by the due date	You have submitted your assessment by the due date	You have submitted your assessment by the due date
Overall	WORKING TOWARDS Curriculum	Working AT curriculum	Working ABOVE curriculum	Working BEYOND curriculum expectation

Task Instructions

Part One - A topic test based on Trigonometry. (Individual)

Part Two -(In pairs only in special cases three students will be allowed to work together) You will create an educational aid to explain how Pythagoras or Trigonometry works.

You will work in a small group to create a detailed educational resource for future students and teachers to use. Please make a youtube link for your assessment.

You are expected to use some digital tool to present this (eg. video or slide presentation with audio files inserted).

You will find the height maximum height and a minimum height of the newly built The Kapua In case if you are struggling you may use any topic from the following list: (discuss with me)

You will create a detailed diagram explaining your working steps.

1. Find the hypotenuse when short sides are given
2. Find the short side when hypotenuse and a short side is given
3. Identify sides in trigonometry and identify an unknown side.
4. Identify an unknown angle.
5. Create a clinometer and use it.
6. Your trigonometry learning is focused on working. You will prepare a video/slide/document presentation for future Year, 10 students, to use as a guide to learning steps.
7. Your final grade is based on two parts.

Please make sure that you see this its not part of our rubric but will be looking for the given details.

Using correct formula with working steps	You have demonstrated limited ability to apply Trigonometric ratios and Pythagoras Theorem to right-angled triangles.	You have identified the correct sides on your diagram	You have identified the correct sides and used the correct formula to calculate the given side	You have chosen the correct formula and shown detailed working steps in finding the side.
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