

F.3PL Mathematics & Technology Project

Overview

This work is assessed and marks contribute to the "Assessed" component of the term mark.

Individually or in a group not exceeding 2, you are to measure the height of two landmarks, one in school and one elsewhere (e.g. IFC). You will need to use what you have learnt in class and show that it can be applied in real life. You will need to take photo evidence that you did the work yourself. You will need to explain how you measured the height of the landmarks (using sketches) as well as briefly describe any errors you might have.

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4. If you are using an app for measuring angles, take a screenshot of it. If you are using a protractor, try to ask a friend to take a photo of you using it.
5. Draw a sketch of the diagram describing your position in relation to the landmark as well as any measurements.
6. Finally, calculate the height of the landmark and explain how there may be inaccuracies.

[Hint] You may need to calculate more than one angle if both you and the landmark are situated on different heights!

Submission

Your final submission must be submitted no later than Monday, 23th March 2015 at 7:45am.

(Penalties apply for late submissions.)

It is up to you how you want to present your project: the only criteria here is that it must be electronic. You may wish to use a more advanced app (such as *Explain Everything*) where you can make a more creative presentation (like a storyboard). If your submission is standalone (e.g. *Microsoft Word*, *Powerpoint*, video or slideshow), you will need to either submit via Edmodo or email. If your submission is online (e.g. *Prezi*) you will need to send the link to me. It is your responsibility to check with me if you decide to use an uncommon app to see if I am able to easily assess your work.

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CRITERIA	Excellent	Good	Fair	Not Shown
[L1] Measurement of distance: evidence of measuring distance shown.	3	2	1	0
[L1] Diagram: sketch explains scenario.	3	2	1	0
[L1] Photographic evidence: landmark can be seen and position of student can be deduced.	3	2	1	0
[L2] Measurement of distance: evidence of measuring distance shown.	3	2	1	0
[L2] Diagram: sketch explains scenario.	3	2	1	0
[L2] Photographic evidence: landmark can be seen and position of student can be deduced.	3	2	1	0
Evidence of overall understanding of measuring angles and calculating height of objects observed at a distance.	6	4	2	0
Errors and inaccuracies: brief explanation included.	3	2	1	0
Use of technology	3	2	1	0
MAXIMUM:	30	AWARDED:		
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[L1] Diagram: sketch explains scenario.	3	2	1	0
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[L2] Diagram: sketch explains scenario.	3	2	1	0
[L2] Photographic evidence: landmark can be seen and position of student can be deduced.	3	2	1	0
Evidence of overall understanding of measuring angles and calculating height of objects observed at a distance.	6	4	2	0
Errors and inaccuracies: brief explanation included.	3	2	1	0
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Errors and inaccuracies: brief explanation included.	3	2	1	0
Use of technology	3	2	1	0
MAXIMUM:	30	AWARDED:		
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[L2] Diagram: sketch explains scenario.	3	2	1	0
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Evidence of overall understanding of measuring angles and calculating height of objects observed at a distance.	6	4	2	0
Errors and inaccuracies: brief explanation included.	3	2	1	0
Use of technology	3	2	1	0
MAXIMUM:	30	AWARDED:		
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