

Seeing through the Dab

Topic: Geometry & Trigonometry

During this structured problem solving lesson students will use multiple approaches find the area of a triangle.

Year Group: Transition Year

Level: Mixed Ability

Presenting the Problem





You are watching a footbal match and you are sitting behind Rihanna and Drake. Rihanna is dabbing and obstructig your view and there is a pillar right beside her. Using the information provided, find as many ways as possible to calculate the area that you are able to see between her dab and the pillar. Hence, find the area of the pitch that you are able to see at this stage of he game (your answer will be an approximation).

The Board Plan 10 minutes 15 minutes 15 minutes 5 minutes

Reflecting on the Learning

Once students got over initial shyness, they did become really engaged in active learning. Having the geometry sets present encouraged thinking that there might be other solutions.

Trigonometric ratios caused much confusion. Students were aware of them but couldn't apply them correctly.

Through solving this problem using different approaches students learned the many links between geometry, coordinate geometry, trigonometry and algebra.





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