An Alternative Approach to Alternate Angles

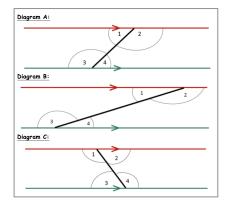
Topic: Geometry

Students are presented with the opportunity to explore synthetic geometry in this structured problem-solving lesson.

Year Group: 1st Year Level: Mixed Ability

Posing the Task

Your task is to identify which angles are equal.



Presenting the Students' Work

Knowledge







Prior Knowledge & Posing the Task
10 minutes



Students working on the problem 10 minutes



Presentation of Solutions & Ceardaíocht 20 minutes



Summing up & Reflection
5 minutes

Reflecting on the Learning

We found that students were very quick to ask for clarity, this could be related to the fact that the lesson was of an unfamiliar style. Students tended to work with resources that were familiar to them rather than try new methods/unfamiliar resources, we felt some students wanted to use new methods but were reluctant to do so as most did not know what Geostrips were.

Most students tried to use their prior knowledge to help them to get a solution. Most students tried to use the terminology $(1 + (2 = 180^{\circ}) \text{ and } (3 + (4 = 180^{\circ}) \text{ to make connections})$. This way of thinking will make the introduction of theorems and proof easier.





Developed by Laura Hogan and Anna Spruhan with thanks to Sarah Tallon MDT and the students from Scoil Chonglais. Baltinglass, Co. Wicklow.

To download this lesson plan visit www.projectmaths.je/mc2017





Maths Counts 2017

Engaging teachers in Lesson Study
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