

How many ways can you prove it?

Topic: Geometry

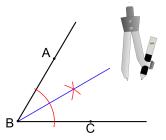
The students will construct the bisector of an angle and using investigative methods will verify the construction.

Year Group: 3rd Year Level: Higher

Presenting the Problem

Task 1:

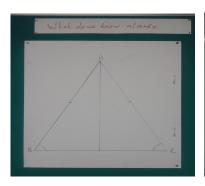
Your task is to draw an acute angle ABC and bisect this angle.

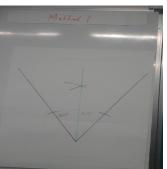


Task 2:

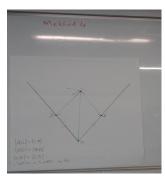
Prove that the line drawn is the bisector of the angle ABC using at least 3 different methods.

The Board Plan









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 feel that this lesson proves that students are capable of constructing proofs using prior knowledge and as teachers we need to move towards investigative methods to teach formal proofs.

I learned that there one at least 6 ways to prove that you have biseted an angle. Lesson Proposal developed by Patricia Tyrell, Eilish Kinsella, Ann Molloy and Brendan



McGlynn MDT, with thanks to the students of Coláiste Choilm, Tullamore, Co. Offaly.

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





Maths Counts 2017





