

Grazing Gazelles

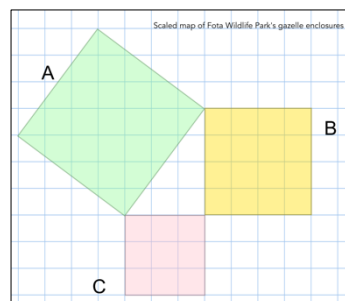
Topic: Geometry, Trigonometry & Area

This lesson is designed to introduce to help students develop a conceptual understanding of Pythagoras' Theorem.

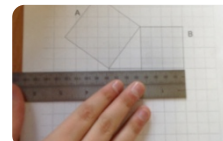
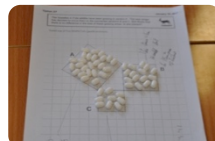
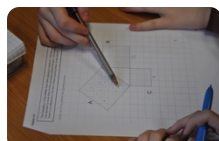
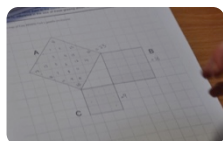
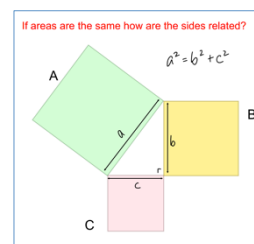
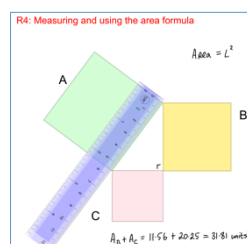
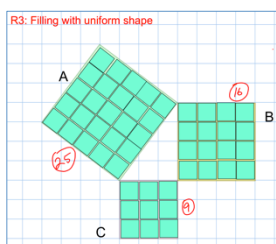
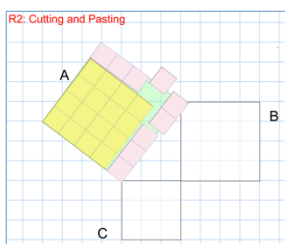
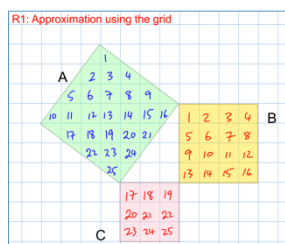
Year Group: 2nd Year
Level: Ordinary Level

Presenting the Problem

Gazelles in Fota wildlife graze in square enclosures. The new ranger has decided to move them from section A to the connected sections B and C. She thinks that there is no difference in the size of these grazing areas. Is she correct?



Preparing for Student Responses



Prior Knowledge & Posing the Task
10 minutes

Students working on the problem
15 minutes

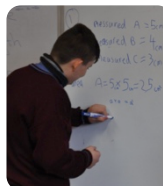
Presentation of Solutions & Ceardaíocht
15 minutes

Summing up & Reflection
5 minutes

Reflecting on the Learning

The benefits of using a problem-solving approach are definitely worthwhile and for the most part engaging to students. It allows students to share knowledge and learn from their peers. It lays a good foundation for students from a conceptual viewpoint before building on concepts using a purely numerical approach.

Through planning of the lesson we experienced the importance of formulating a clear and meaningful problem. This allows students to extend their knowledge and share this knowledge with their peers. Team work and communication are central and paramount in this process.



Developed by Shaun Halley, Don O'Shea (Kinsale CS), Niamh O' Flynn (Carrigaline CS), Dee Cahill (Edmund Rice College) and Iris Graham MDT, with thanks to the students from Carrigaline CS.

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

