Posing the Problem

Into the next Dimension

Topic: Area & Volume Discovering how to calculate the volume of a cylinder

Year Group: 2nd Year Level: Ordinary

To discover the volume of a cylinder through the relationship between the area of a 2D shape and the volume of a uniform shape.



Presenting Students' Work



Reflecting on the Learning

Students seemed at ease with the concept of 2D, given their ability to recall correctly the area and perimeter for a rectangle, square and disc and their use of the correct mathematical terminology. All students were able to verbalise how the area of the disc measured in relation to the squares, circumscribing and inscribing it, and tended to begin by using the method of counting the boxes to find the area of the enclosed circle before using a mathematical formula to calculate the area. Students measured the diameter with a ruler or counting boxes and using this, they calculated the radius, which they substituted into the area formula recalled from the previous lesson. When moving on to the problem of volume, the class was comfortable with a 3D object having 3 dimensions (I, w, h). The students liked the "hands on" measuring, working very well in pairs.





Lesson developed by Fiona Griffin (St Michael's College), Sharon Hegarty (Coláiste Gleann Lí), Clare Hudson (Coláiste Nano Nagle), Tríona Mulcahy (Gaelcoláiste Chiarraí) with thanks to Conleth Dillon MDT and pupils from St Michael's College, Listowel, Co Kerry.





Maths Counts 2017 Engaging teachers in Lesson Study





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