

Mathematics in the Modern World Archimedes & the Law of the Lever

Commences: 17 November
Accreditation: 4 hours

This is the first of a suite of online Professional Development courses to be offered by the School of Mathematics and Statistics at UNSW. It aims at empowering high school teachers to bring modern and interesting aspects of mathematics into the classroom.

This is an accredited (4 hour) PD course for NSW high school mathematics teachers that provides enrichment and solidification of understanding across a number of areas. Starting with Archimedes' insights into the principle of a lever, we show how ideas of balancing extend from one-dimensional applications to two-dimensional planar vector geometry, motivate the role of mean or expected value in elementary probability and statistics, and explain how barycentric coordinates relate to centres of mass.

High quality online presentations and a range of elementary to more challenging activities combine with the easy interface of openlearning.com to provide an interactive and fun learning environment, emphasising peer interaction and communication.

Cost: \$60 (Special Introductory Offer, normally \$90)

Session times:

17 November 6-8pm; and

24 November 6-8pm.

All videos and content will be accessible from 17 - 30 November.

Accreditation: 4 hours

APST Addressed: 2.1.2 and 2.5.2

Enrol: www.openlearning.com/courses/archimedesthelawofthelever