This unit was developed as part of a series of units which were discussed in the *Planning for Teaching Learning & Assessment: One School's Approach* webinar, a recording can be accessed at www.jct.ie/maths/planning_resources.

Concept: **Relationships and Variables II**

Develop the concept of a function using geometric relationships (area, surface area & volume)

Student Context: First Year Students with some prior knowledge of patterns

Learning Outcomes: GT1, GT2, N3 (b), N4, AF1 (a), (b), (c), AF2 (a), (b), (c), AF3 (a) (i)&(ii) (b) (i), AF4 (a), (b), AF7

Key Learning: Learning outcomes from the Unifying strand are decided by the class teacher

- Students use mathematical tools (tables, graphs etc.) to further develop their understanding of letters as variables in the context of geometry
- Students develop their understanding of relationships as functions, including:
  - Understanding that the dependent variable is governed by the independent variable(s)
- Students use formulae to calculate quantities and should understand that the inputs and outputs are instances of the relationship

Ongoing Assessment

- Can students recognise dependent and independent variables in a formula and explain their understanding of the interaction between them?
- Can students use specified geometric formulae accurately?
- Can students select, justify and apply suitable strategies to solve problems in shape and space?

Learning Experiences

Notes/Reflection

ETSS Wicklow