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Professional development, reflective practice and lesson study.

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Summary: This article discusses the author's methods of teaching Pythagoras' theorem to a class of mid-range to high attaining year 8 or year 9 pupils in a series of 1-hour lessons. It details the sequence of activities or tasks used such as the starter tarsia puzzle and explains the reasons why such tasks were utilized. Key teaching points are also presented.

Classification: G49 D49

Keywords: preservice teacher education; lesson planning; subject content knowledge; pedagogical content knowledge; Pythagorean theorem; teaching units; lower secondary; reflective teaching; tarisa puzzle; right triangles; area; squares