Preliminaries for a first year course on modelling

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I will present the results of my 2012 research project on outcomes achieved by secondary school students who were given an authentic mathematical modelling experience. This research has impact on the potential understanding of modelling by secondary school students entering university. I will discuss what aspects of the modelling experience were possible at secondary school and therefore should be easily achievable at undergraduate level; what aspects students enjoyed about the experience and are therefore useful to include; and what aspects they struggled with, providing a sign that these things need good instruction and relevant time.