MULTIPLE MEASURES - BACKGROUND NOTES

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These notes offer background reading and information for users of the Multiple Measures online tool and website, www.multiplemeasures.org.au.
For further detail, or with any questions, please contact the authors, listed above.

Q1+2: STUDENTS

Q1. What level of expertise will students bring to their learning? (y1 / y2 / y3 / hons / masters)
Are students reliant on external resources or advice for knowledge or have they moved toward discovery and self-authorship in their studies (Hodge et al., 2008)? Although this may not take into account the individual experience of all students or differences between faculties or institutions, the year level(s) of the students can establish an approximation of expertise.

KEYWORDS: Expertise, knowledge base, year level, novice, holistic, discovery, self-authorship

Q2. What range of expectations will students have of the learning culture? Use the sliders to show the range and style of learning expectations across the cohort. (Low consensus > High consensus)

Your responses to questions via sliders / checkboxes in the tool will filter MM exemplars. These can match your interests for the benchmarking of your own completed units / subjects and will give you a set of similar comparators to inform this. Finding contrasting examples, by using the questions to filter differently, may offer new insights useful for design and development of new units.

In Question 1, sorting exemplars according to year level offers a simple approach to identifying relevant and useful references for benchmarking of developing or delivered teaching. It may be helpful to consider other dimensions of students’ expertise when reviewing examples also.

MM13, for example, targets first year students and uses the body as the departure point for an expansive historical survey and vocabulary development to underpin communication between students. At third year level and also centred on the body, MM15 aligns with the ‘discovery paradigm’ of Hodge et al. (2008) by engaging students in the highly experimental generation of performances, exhibitions, discursive writing, film and video, and online archive.
Notes

In questions 1-2 the focus is on students, the levels of expertise they may bring to planned interdisciplinary engagements, and the significance of their disciplinary and cultural backgrounds to the development of new interdisciplinary studies.

One simple means of locating where students currently sit on their learning journeys is by considering their year level. While it has limitations as set out below, we have used year level as a summary measure for the Multiple Measures project. Researchers have linked this to a linear progression from novice, to advanced beginner, and on to competent (Dreyfus & Dreyfus, 2005). A more holistic view of expertise in the creative disciplines, however, embraces personal development dimensions and engagement skills commonly valued in studio-based learning and teaching (de la Harpe & Peterson, 2008).

Students’ expertise and maturity are also prominent concerns in inquiry-based approaches to learning (Healey & Jenkins, 2015; Hodge et al., 2008), which complement and inform the design of interdisciplinary engagements. The ‘Student as Scholar’ model (Hodge et al., 2008), for example, foregrounds ‘frame of mind’ – motivation, belief in the possibility of original scholarly and creative work, and self-perception in relation to peers – in order to achieve self-authorship of new knowledge. Both ‘frame of mind’ and ‘level of expertise’ may impact the level of self-direction that can be expected of students, as discussed in questions 5-6.

The significance of students’ disciplines of origin can be productively understood via Biglan’s (1973a; 1973b) enduring classification of discipline paradigms along three continua: hard/soft, pure/applied and life/non-life (see question 2). Across disciplines, the degree of consensus about the theories and methods varies from high to low. Students in the ‘low paradigm’ arts (‘soft-applied’), for example, are more likely to engage in earlier, independent knowledge construction than their peers in ‘high paradigm’ mathematics and chemistry (‘hard-pure’) (Robertson & Blackler, 2006).

A complementary view of disciplines and students’ associated learning strategies – abstract or concrete – persists from Kolb’s (1981) index of academic fields. In this index, mathematics is classified as abstract, and the humanities concrete. The abstract-concrete continuum suggests a need for mediating strategies where students come together to work on interdisciplinary tasks. In contemporary contexts, the relevance of these models is borne out in the distinctive ways of working by students from different disciplines (Bailey, 2010). In many cases today, students will be negotiating both disciplinary and cultural difference in interdisciplinary engagements (Morieson et al., 2012).

This pair of questions considers the expertise, viewed holistically, that students bring to an interdisciplinary engagement when selecting exemplars to inform the benchmarking of developing or delivered learning experiences. These questions challenge educators to develop awareness and responses to diverse student backgrounds in terms of discipline and culture and to identify learning opportunities and mediating strategies in that context.
Useful References

Morison, L., Carlin, D., Clarke, B., Lukas, K. & Wilson, R. (2012). Thinking about Interdisciplinarity. Position paper circulated to academic staff at School of Media and Communication. RMIT University, Melbourne.