



Figure 1 Learning-centred framework demonstrating alignment of learning outcomes and Knowledge Construction Activities (KCA's) to the Information Literacy (IL) Framework and process and products of learning

Table 2 Students' top four^a personal learning outcomes about searching for information post-intervention

Personal learning outcomes (Percent students)	Examples of student comments
Choice of search terms effect results (40%)	<p>“key words can change the information you get, one word could mean finding 10 articles and changing it could mean finding 100” [student 2, 2005]</p> <p>“Look at key words, brainstorm ideas ... some [in the group] had used better search strings and found more data on “the topic” than a couple of people” [student 25, 2005]</p> <p>“To briefly read over the first few articles found to see if there are any other relevant terms that could be used to better your search” [student 6, 2006]</p>
You need to evaluate internet information (38%)	<p>“that a lot of information can be found, but not much of it is worth much value, as not being appropriate or related enough to what we need” [student 14, 2006]</p> <p>“I learned to evaluate the authors/ sites and I also learnt not to accept a statement until I see other authors have also written the same point” [student 21, 2006]</p> <p>“how to differentiate between reliable and non-reliable sources” [student 8, 2005]</p>
How to broaden or narrow searches (29%)	<p>“how to use AND and OR to narrow or expand the search, this was especially good when using the OR to include different ways of saying something eg. CPD, CPE, ongoing learning” [student 7, 2006]</p> <p>“find alternative words for the search statement to help broaden the search” [student 19, 2006]</p> <p>“that you can use truncations to broaden your search” [student 13, 2005]</p>
You need to search appropriate sources (17%)	<p>“I have learnt where to find more databases (as I used only Proquest in first year)” [student 6, 2005]</p> <p>“use a wide variety of information sources” [student 22, 2005]</p> <p>“It’s important to use wide range of databases and make changes to your search statement to find a wider range of</p>

information” [student 26, 2006]

^aStudents could nominate more than one learning outcome