



Research Skill Development Framework

A conceptual model to make explicit the incremental and cyclic development of student research skills

		LEVEL OF STUDENT AUTONOMY				
		Level 1	Level 2	Level 3	Level 4	Level 5
FACET OF INQUIRY ↑ ↓	A. Students <i>embark on inquiry</i> and so <i>determine a need</i> for knowledge/ understanding	Curious Respond to questions/tasks arising explicitly from a closed inquiry.	Curious Respond to questions/tasks required by and implicit in a closed inquiry.	Curious Respond to questions/tasks generated from a closed inquiry.	Curious Generate questions/aims/hypotheses framed within structured guidelines.	Curious Generate questions/aims/hypotheses based on experience, expertise and literature.
	B. Students <i>find/generate</i> needed information/data using appropriate methodology	Determined Collect and record required information/data using a prescribed methodology from a prescribed source in which the information/data is clearly evident.	Determined Collect and record required information/data using a prescribed methodology from prescribed source/s in which the information/data is not clearly evident.	Determined Collect and record required information/data from self-selected sources using one of several prescribed methodologies.	Determined Collect and record self-determined information/data from self-selected sources, choosing an appropriate methodology based on structured guidelines.	Determined Collect and record self-determined information/data from self-selected sources, choosing or devising an appropriate methodology with self-structured guidelines.
	C. Students <i>critically evaluate</i> information/data and the process to find/generate this information/data	Critical Evaluate information/data and the inquiry process using simple prescribed criteria.	Critical Evaluate information/data and the inquiry process using prescribed criteria.	Critical Evaluate information/data and the inquiry process using criteria related to the aims of the inquiry.	Critical Evaluate information/data and the inquiry process comprehensively using self-determined criteria developed within structured guidelines.	Critical Evaluate information/data and the inquiry process rigorously using self-generated criteria based on experience, expertise and literature.
	D. Students <i>organise</i> information collected/generated and manage the research process	Organised Organise information/data and manage the research process according to a simple prescribed structure.	Organised Organise information/data and manage the research process according to prescribed structures.	Organised Organise information/data and manage the research process by adapting provided structures.	Organised Organise information/data and manage the research process using self-determined structures that fit provided guidelines.	Organised Organise information/data and manage the research process using self-determined protocols in accordance with the discipline.
	E. Students <i>synthesise and analyse and apply</i> new knowledge	Creative Synthesise and analyse information/data to reproduce existing knowledge in prescribed formats. Ask questions of clarification/curiosity.	Creative Synthesise and analyse information/data to reorganise existing knowledge in standard formats. Ask relevant, researchable questions.	Creative Synthesise and analyse information/data to construct emergent knowledge. Ask rigorous, researchable questions based on new understandings.	Creative Synthesise, analyse and apply information/data to fill recognised knowledge gaps.	Creative Synthesise, analyse and apply information/data to fill self-identified gaps or extend knowledge.
	F. Students <i>communicate</i> knowledge and the processes used to generate it, with an awareness of ethical, social and cultural issues	Persuasive Use mainly lay language and prescribed genre to demonstrate required knowledge and understanding for lecturer/teacher as the audience.	Persuasive Use some discipline-specific language and prescribed genre to demonstrate self-selected knowledge and understanding from a stated perspective and for a specified audience.	Persuasive Use mostly discipline-specific language and appropriate genre to demonstrate knowledge and understanding within a field from a scholarly perspective and for a specified audience.	Persuasive Use the language of the discipline and appropriate genre to address knowledge and understanding gaps from several perspectives for a self-selected audience.	Persuasive Use the language of the discipline, choosing appropriate genre to extend knowledge and understanding, from diverse perspectives for a range of audiences.

* closed = lecturer specified. open = student initiated. Lecturers and teachers determine scope of inquiry and standard required; student achievement determines the Level their research actually attains. For example, the provision of an open inquiry within structured guidelines (Level 4) in the First Year University context will see some students providing evidence of Level 1 attainment for a specific facet, with others demonstrating Level 2, Level 3 or Level 4, depending on their degree of rigour.