

Discovery Learning Skills



A framework for facilitating the explicit, coherent, incremental and cyclic development of the skills associated with discovering, researching, problem solving, critical thinking and clinical reasoning.

Spectrum of Students' Autonomy when Discovering

Discipline content knowledge from educators to students.

Students:
Watch
Listen
View
Absorb
Copy
Recite
Follow
Look
Write-down
Take-down
Imitate
Mimic
Replicate

Will this knowledge be memorised by students, repeated in instruction or provided on paper or in weblink?

If memorised by students, when is the optimum time and process for this learning?

How well and for how long will this knowledge be retained?

What content knowledge will help, and what content knowledge will hinder, students' active cognitive and affective engagement with discovery?

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What is the connection between the knowledge you direct students to and the Discovery Learning that you facilitate? Discovery learning skills are well developed in content-rich contexts.		Prescribed Discovering	Bounded Discovering	Scaffolded Discovering	Open-ended Discovering	Unbounded Discovering
		Highly structured directions and modelling from educator prompt investigation, in which students	Boundaries set by and limited directions from educator channel investigation, in which students	Scaffolds placed by educator shape independent investigation, in which students		Students determined guidelines for the investigation that are in accord with discipline or context to
\sim	Students					
	Embark & Clarify What is my purpose? Ask questions, define problems, set aim or decide on purpose, heeding ethical, cultural, social and team (ECST) considerations.					
F a c	Find & Generate What information do I need? Find and generate needed information/data using appropriate methodology.					
t s o f	Evaluate & Reflect How trustworthy are my information, data and processes? Determine the credibility of selected sources, information and data generated. Reflect on the processes used.					
D i s c o v e r y	Organise & Manage How will I organize & what will I manage? Organise information and data to reveal patterns and themes, and manage teams and research processes.					
	Analyse & Synthesise What does it mean? Analyse information/data critically and synthesise new knowledge to produce coherent of individual/team understandings.					
	Communicate & Apply What communication aids my investigation? What is important for each audience? Discuss and write processes, respond to feedback, and present ethically understandings and applications.					