

Types of Knowledge

The taxonomy of knowledge types based on Krathwohl's revised Blooms taxonomy¹⁾:

	Type	Definition	Examples
1.	Declarative knowledge	Factual knowledge The knowledge of facts or the basic elements students must know to be acquainted with a discipline or solve problems in it.	Knowledge that a keyboard is a computer device, that chemical symbol <i>Au</i> represents gold, that this color is called green, that 7 is the symbol for number 7, knowledge of names of three fastest growing trees, knowledge of the definition of the quadratic formula, knowledge that the capital of Azerbaijan is Baku, knowledge that the U.S. gained independence in 1776.
2.		Conceptual knowledge Conceptual knowledge refers to patterns and interrelationships among the basic elements within a larger structure that enable them to function together.	Knowledge of categories (concepts) like cars, dogs or rock music. Knowledge about similarities and patterns in factual knowledge elements, for example forms of business ownership.
3.	Procedural knowledge		How to do something, methods of inquiry, and criteria for using skills, algorithms, techniques, and methods. Whole-number division algorithm , greedy algorithm , Held-Karp algorithm , interviewing techniques , differential equation solving techniques , gaze heuristic , similarity heuristic .
4.	Metacognitive knowledge		Knowledge of cognition in general as well as awareness and knowledge of one's own cognition ²⁾ . Knowledge of outlining as a means of capturing the structure of a unit subject matter in a textbook, knowledge of the use of heuristics, knowledge of the types of tests particular teachers administer, knowledge of the cognitive demands of different tasks.

¹⁾

Krathwohl, David R. A Revision of Bloom's Taxonomy: An Overview. Theory into practice 41, no. 4, Autumn 2002.

²⁾

Pintrich, Paul R. The Role of Metacognitive Knowledge in Learning, Teaching, and Assessing. Theory into Practice 41, no. 4: 219-225, October 2002.

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