Bloom's Taxonomies Illustrations and Tables

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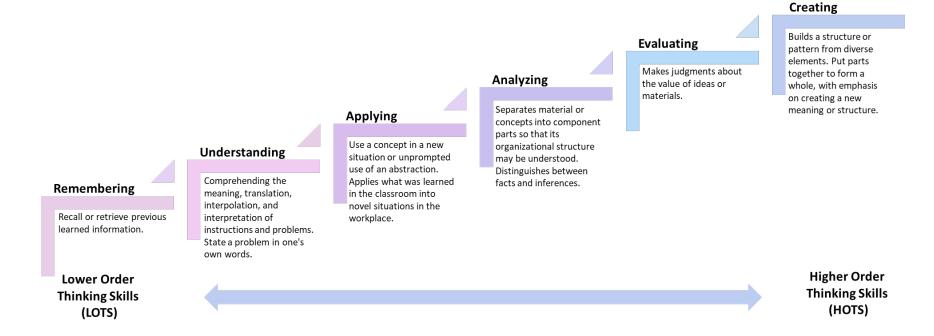
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Bloom's Taxonomy: The Cognitive Domain

Figure 1: Steps in the Cognitive Domain (Wording from D. R. Clark, 2015)



Remembering	Understanding:	Applying:	Analyzing:	Evaluating:	Creating:
Key Words: defines,	Key Words:	Key Words: applies,	Key Words: analyzes,	Key Words: appraises,	Key Words: categorizes
describes, identifies,	comprehends, converts,	changes, computes,	breaks down,	compares, concludes,	combines, compiles,
knows, labels, lists,	defends, distinguishes,	constructs,	compares,	contrasts, criticizes,	composes, creates,
matches, names,	estimates, explains,	demonstrates,	contrasts, diagrams,	critiques, defends,	devises, designs,
outlines, recalls,	extends, generalizes,	discovers, manipulates,	deconstructs,	describes,	explains, generates,
recognizes, reproduces,	gives an example,	modifies, operates,	differentiates,	discriminates,	modifies, organizes,
selects, states	infers, interprets,	predicts, prepares,	discriminates,	evaluates, explains,	plans, rearranges,
	paraphrases, predicts,	produces, relates,	distinguishes, identifies,	interprets, justifies,	reconstructs, relates,
	rewrites, summarizes,	shows, solves, uses	illustrates, infers,	relates, summarizes,	reorganizes, revises,
	translates		outlines, relates,	supports	rewrites, summarizes,
			selects, separates		writes
Digital Key Words:	Digital Key Words:	Digital Key Words:	Digital Key Words:	Digital Key Words:	Digital Key Words:
Bullet pointing,	Advanced searches,	running, loading,	Mashing, linking,	(Blog/vlog) commenting	programming, filming,
highlighting,	Boolean searches, blog	playing,	tagging, validating	reviewing, posting,	animating, blogging,
bookmarking, social	journaling, twittering,	operating, hacking,	reverse-engineering,	moderating,	video blogging, mixing,
networking, social	categorizing,	uploading, sharing,	cracking	collaborating,	remixing, wiki-ing,
bookmarking,	commenting,	editing		networking, refactoring,	publishing,
favoriting/local	annotating, subscribing			(alpha & beta)testing	videocasting,
bookmarking,					podcasting,
searching, googling					directing/producing
Examples: Recite a	Examples: Rewrite the	Examples:	Examples:	Examples:	Examples: Write a
policy. Quote prices	principles of test	Use a manual to	Troubleshoot a piece of	Select the most	company operations or
from memory to a	writing. Explain in one's	calculate an employee's	equipment by using	effective solution.	process manual.
customer. Recite the	own words the steps for	vacation time.	logical deduction.	Hire the most qualified	Design a machine to
safety rules.	performing a complex	Apply laws of statistics	Recognize logical	candidate.	perform a specific task.
	task. Translate an	to evaluate the	fallacies in reasoning.	Explain and justify a	Integrates training from
	equation into a	reliability of a written	Gather information	new budget.	several sources to solve
	computer spreadsheet.	test.	from a department and		a problem.
			selects the required		Revises and process to
			tasks for training.		improve the outcome.
Lower order					Higher order
Thinking Skills					Thinking Skills

Table 2: Cognitive Taxonomy Cognitive & Knowledge Dimensions(Adapted from Huitt, n.d.)

			COGNITIVE DIMENSION					
		Knowledge of	Remember	Understand	Apply	Analyze	Evaluate	Create
ב	Factual Knowledge	Terminology, specific details	List Label map, List	Summarize Interpret	Respond Use math	Select Categorize	Check For Critique article	Generate Create short
agnaimouis		and elements	names	paragraph, Summarize book	algorithm	words		story
	Conceptual	Categories,	Recognize	Classify	Provide	Differentiate	Determine	Assemble
	Knowledge	principles, generalization, theories,	Define levels of cognitive taxonomy	Describe cognitive taxonomy in	Write objectives using cognitive dimension,	Differentiate levels of cognitive	Critique written objectives	Create objectives using both knowledge
NOIS		models, & structures	,	own words	identify appropriate	taxonomy, differentiate		and cognitive dimensions
GE DIMENSION					knowledge dimension for objectives	between the knowledge and cognitive dimensions		
	Procedural	Subject-	Recall	Clarify	Carry Out	Integrate	Judge	Design
KNOWLEDGE	Knowledge	specific skills, techniques, & criteria for use	List steps in problem solving	Paraphrase problem solving process in own words	Use problem solving process for assigned task	Compare convergent and divergent techniques	Critique appropriateness of techniques used in case analysis	Develop original approach to problem solving
	Meta-	Strategic use,	Identify	Predict	Use	Deconstruct	Reflect	Create
knowledge	Cognitive Knowledge	cognitive tasks, & self- knowledge	List elements of personal learning preferences	Describe implications of learning preferences	Develop study skills appropriate to learning preferences	Compare elements of dimensions in learning preferences	Critique appropriateness of particular learning preferences to own learning	Create an original learning preferences theory

Bloom's Taxonomy: The Affective Domain

Figure 2: Steps in the Affective Domain (Wording from D. R. Clark, 2015a)

Responding to Phenomena

Awareness, willingness to hear, selected attention.

Receiving

Phenomena

Learners' active participation. Attend and react to a particular phenomenon. Learning outcomes may emphasize compliance in responding, willingness to respond, or satisfaction in responding (motivation).

Valuing

The worth or value a person attaches to a particular object, phenomenon, or behavior. Ranges from simple acceptance to more complex state of commitment. Valuing is based on internalization of set of specified values, while clues to these values are expressed in the learner's overt behavior and are often identifiable.

Values

Organization

Organizes values into

priorities by contrasting

conflicts between them,

and creating a unique

value system. The

values.

different values, resolving

emphasis is on comparing,

relating, and synthesizing

Has a value system that controls their behavior. The behavior is pervasive, consistent, predictable, and most important characteristic of the learner. Instructional objectives are concerned with the student's general patterns of adjustment (personal, social, emotional).

Lower order Affective Skills (LOAS)

Higher order Affective Skills (HOAS)

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Receiving Phenomena:	Responds to Phenomena:	Organization:	Valuing:	Internalizes Values:
Awareness, willingness to hear, selected attention.	Learners' active participation. Attend and react to a particular phenomenon. Learning outcomes may emphasize compliance in responding, willingness to respond, or satisfaction in responding (motivation).	The worth or value a person attaches to a particular object, phenomenon, or behavior. Ranges from simple acceptance to more complex state of commitment. Valuing is based on internalization of set of specified values, while clues to these values are expressed in the learner's overt behavior and are often identifiable.	Organizes values into priorities by contrasting different values, resolving conflicts between them, and creating a unique value system. The emphasis is on comparing, relating, and synthesizing values.	Has a value system that controls their behavior. The behavior is pervasive, consistent, predictable, and most important characteristic of the learner. Instructional objectives are concerned with the student's general patterns of adjustment (personal, social, emotional).
Examples: Listens to others with	Examples:	Examples: Recognizes the need for	Examples: Demonstrates belief in the	Examples: Shows self-reliance when
respect.	Participates in class discussions.	balance between freedom and	democratic process.	working independently.
Listens for and remember	Gives a presentation.	responsible behavior.	Is sensitive towards	Cooperates in group
the name of newly	Questions new ideals,	Explains the role of systematic	individual and cultural	activities.
introduced people.	concepts, models, etc. in	planning in solving problems.	differences (value diversity).	Uses an objective approach
meroduced people.	order to fully understand	Creates a life plan in harmony	Shows the ability to solve	in problem solving.
	them.	with abilities, interests, and	problems.	Displays a professional
	Knows the safety rules and	beliefs.	Proposes a plan to social	commitment to
	practice them.	Prioritizes time effectively to	improvement and follows	ethical practice on a daily
	process areas	meet the needs of the	through with commitment.	basis.
		organization, family, and self.	Informs management on	Revises judgments and
			matters that one feels	changes behavior in light of
			strongly about.	new evidence.
Key Words: acknowledge,	Key Words: answers, assists,	Key Words: compares, relates,	Key Words: appreciates,	Key Words: acts,
asks, attentive,	aids, complies, conforms,	synthesizes	cherish, treasure,	discriminates, displays,
courteous, dutiful,	discusses, greets, helps,		demonstrates, initiates,	influences, modifies,
follows, gives, listens,	labels, performs, presents,		invites, joins, justifies,	performs, qualifies,
understands	tells		proposes, respect, shares	questions, revises, serves,
				solves, verifies
Lower order	Higher order			
Affective Skills		Affective Skills		
(LOAS)	(HOAS)			

Dave's Taxonomy: The Psychomotor Domain

Figure 3: Steps in the Psychomotor Domain. (Wording from D. R. Clark, 2015c)

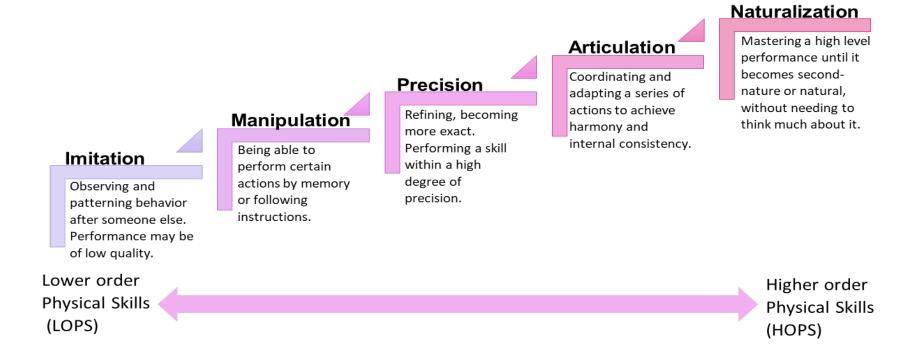


Table 4: Psychomotor Domain Cat	Table 4: Psychomotor Domain Categories (Wording from D. R. Clark, 2015c)					
Imitation	Manipulation	Precision	Articulation	Naturalization		
Observing and patterning behavior after someone else. Performance may be of low quality.	Being able to perform certain actions by memory or following instructions.	Refining, becoming more exact. Performing a skill within a high degree of precision.	Coordinating and adapting a series of actions to achieve harmony and internal consistency.	Mastering a high level performance until it becomes second-nature or natural, without needing to think much about it.		
Examples: Copies a work of art. Performs a skill while observing a demonstrator.	Examples: Performs a skill on one's own after taking lessons or reading about it. Follows instructions to build a model.	Examples: Works and reworks something, so it will be "just right." Performs a skill or task without assistance. Demonstrates a task to a beginner.	Examples: Combines a series of skills to produce a video that involves music, drama, color, sound, etc. Combines a series of skills or activities to meet a novel requirement.	Examples: Maneuvers a car into a tight parallel parking spot. Operates a computer quickly and accurately. Displays competence while playing the piano.		
Key Words : copy, follow, mimic, repeat, replicate, reproduce, trace	Key Words: act, build, execute, perform	Key Words: calibrate, demonstrate, master, perfectionism	Key Words: adapt, constructs, combine, creates, customize, modifies, formulate	Key Words: create, design, develop, invent, manage, naturally		
Lower order Physical Skills (LOPS)				Higher order Physical Skills (HOPS)		