

Writing SMART Outcomes for Academic Assessment Plans

A <u>student learning outcome</u> is a statement that explains what the student is learning, including the accumulated and demonstrated knowledge, skills, abilities, behaviors, and habits of mind, as a result of actively participating in the course or program of study.

Example: Students will locate online information and evaluate it critically for its validity and appropriateness by using a rubric.

Writing Learning Outcomes through a SMART-Based Approach

Content	Definition	Guiding Question	
<u>S</u> PECIFIC	The statement tells what will change for whom in concrete terms.	What exactly is the student going to do and learn?	
<u>M</u> EASURABLE	The outcome implies the ability to quantify an activity and its results.	<i>Is the demonstration of this learning outcome quantifiable and can we measure it?</i>	
<u>A</u> TTAINABLE/ <u>A</u> CHIEVABLE	The outcome is feasible with the available resources, appropriate in scope, and within parameters.	Can we get this done in the proposed time frame with the resources and support we have?	
<u>R</u> ELEVANT	The statement addresses the relationship between the program and outcomes.	<i>Will this learning outcome have the desired effect?</i>	
TIMELY	A reasonable time frame is incorporated into the outcomes statement.	When will this outcome be accomplished?	

Learning Outcomes Summary

Well-written and well-stated learning outcomes are:

- student-focused rather than instructor-focused
- focused on the specific learning that results from an activity
- driven by the achievable skills and abilities relevant to the discipline and professional standards
- worded in clear, concise, and concrete language about learning
- focused on learning that can be developed, measured, and assessed

The learning outcomes in various frameworks can be summarized into three categories as follows:

- Knowledge and conceptual understanding
- Thinking and other skills
- Behaviors, values, dispositions, and habits of mind

		Illustrative General Instructional Objectives	Illustrative Verbs for Stating Specific Student Learning Outcomes	
	. Knowledge is defined as the remembering of previously learned material. This may involve the recall of a wide range of material, from specific facts to complete theories, but all that is required is the bringing	Knows basic concepts	Defines, describes, identifies, labels, lists, matches, names, outlines, reproduces, selects, states	
		Knows common terms		
of a wide		Knows methods and procedures		
		Knows principles		
		Knows specific facts		
2. Comprehension is defined as the		Comprehends facts and principles	Converts, defends, distinguishes, estimates,	
ability to	ability to grasp the meaning of	Interprets verbal material	explains, extends, generalizes, gives examples, infers, paraphrases, predicts, rewrites, summarizes	
material		Estimates future consequences in implied data		
		Justifies methods and procedures		
	 Application refers to the ability to use learned material in new and concrete situations. 	Applies concepts and principles to new situations	Changes, computes, demonstrates, discovers, manipulates, modifies, operates, predicts, prepares, produces, relates, shows, solves, uses	
		Applies laws and theories to practical solutions		
		Demonstrates correct usage of a method or procedure	······, ·····, ·····, ·····, ·····, ·····, ·····	
4. Analysis refers to the ability to break		Recognizes unstated assumptions	Breaks down, diagrams, differentiates,	
		Recognizes logical fallacies in reasoning	discriminates, distinguishes, identifies, illustrates, infers, outlines, points out, relates, selects,	
		Distinguishes between facts and inferences	separates, subdivides	
		Writes a well-organized theme	Categorizes, combines, compiles, composes,	
parts toç	parts together to form a new whole.	Proposes a plan for experiment	creates, devises, designs, explains, generates, modifies, organizes, plans, rearranges, reconstructs, relates, reorganizes, revises, rewrites, summarizes, tells, writes	
		Integrates learning from different areas into a plan for solving a problem		
		Judges the logical consistency of written material	Appraises, compares, concludes, contrasts, criticizes, describes, discriminates, explains, justifies, interprets, relates, summarizes, supports	
(e.g., sta	atement, novel, poem,	Judges the adequacy with which conclusions are supported by data		
	 Categories Knowle rememb material of a wide specific but all th to mind Compre ability to material Applica learned situation Analysi down m parts, so structure Synthes parts tog Evaluat ability to (e.g., sta 	 remembering of previously learned material. This may involve the recall of a wide range of material, from specific facts to complete theories, but all that is required is the bringing to mind of the appropriate information. 2. Comprehension is defined as the ability to grasp the meaning of material. 3. Application refers to the ability to use learned material in new and concrete situations. 4. Analysis refers to the ability to break down material into its component parts, so that its organizational structure may be understood. 5. Synthesis refers to the ability to put parts together to form a new whole. 	Categories in the Cognitive Domain1.Knowledge is defined as the remembering of previously learned material. This may involve the recall of a wide range of material, from specific facts to complete theories, but all that is required is the bringing to mind of the appropriate information.Knows basic concepts Knows common terms Knows methods and procedures Knows specific facts2.Comprehension is defined as the ability to grasp the meaning of material.Comprehends facts and principles Interprets verbal material Estimates future consequences in implied data Justifies methods and procedures3.Application refers to the ability to use learned material in new and concrete situations.Applies concepts and principles to new situations Applies laws and theories to practical solutions Demonstrates correct usage of a method or procedure4.Analysis refers to the ability to break down material into its component parts, so that its organizational structure may be understood.Recognizes logical fallacies in reasoning Distinguishes between facts and inferences5.Synthesis refers to the ability to put parts together to form a new whole.Writes a well-organized theme Proposes a plan for experiment Integrates learning from different areas into a plan for solving a problem6.Evaluation is concerned with the ability to judge the value of material (e.g., statement, novel, poem,Judges the logical consistency of written material Judges the adequacy with which conclusions are eucoded by date	