BLOOM'S TAXONOMY OF EDUCATIONAL OBJECTIVES

Objectives state what we want our students to learn and be able to do. A statement of an objective contains a noun (type of knowledge) and a verb (type of cognitive process using the knowledge).

General form of a learning objective: Students will be able to *verb* noun phrase.

Examples:Students will be able to *design* an experiment to test a hypothesis.Students will be able to *distinguish* among confederal, federal, and unitary systems of government.Students will be able to *differentiate* between rational and irrational numbers.

	Factual	Conceptual	Procedural	Metacognitive	
	The basic elements	The interrelationship	How to do something,	Knowledge of cognition in general	
DEFINED	students must know to	among the basic elements	methods of inquiry, and	as well as awareness and knowledge	
	be acquainted with a	within a larger structure	criteria for using skills,	of one's own cognition	
	discipline or solve	that enables them to	algorithms, techniques, and		
	problems in it	function together	methods		
SUBTYPES	Terminology	Classification	Skills	Strategies for learning	
	Symbols	Categories	Algorithms	Knowledge about cognitive tasks	
	Specific details	Principles	Techniques	Self-knowledge	
	Specific elements	Generalizations	Methods		
SL		Theories	Criteria for judgment		
		Models			
EXAMPLE	Works by an artist	Periods of geologic time	Skills to paint a watercolor	Use of mnemonic strategies	
	Historical events	Models of government	Skills to analyze an injury	Use of organizing techniques	
	Components of a cell	Theory of evolution	Methods of literary	Knowing one's understanding of	
EX			criticism	and motivation for a task	

The Knowledge Dimension

Taken from Anderson and Krathwohl; A Taxonomy for Learning, Teaching, and Assessing: A Revision of Bloom's Taxonomy of Educational Objectives, New York: Longman, 2001,

The general form for writing a learning objective: **Students will be able** to *verb* noun phrase.

An example of a learning objective: **Students will be able to** *write* a learning objective that is clear and specific.

	Remember	Understand		Apply	Analyze		Evaluate	Create
	Retrieve relevant	Construct meaning by		Use a procedure to	Break material into its		Make judgments	Put elements
	knowledge from	connecting "new" to		perform exercises	constituent parts and		based on criteria	together to form
	long-term memory	"prior" knowledge		or solve problems	relate parts to whole		or standards	a coherent whole
	Remember	Understand	Interpret	Apply	Differentiate	Analyze	Evaluate	Create
	Recognize	Clarify	Paraphrase	Execute	Discriminate	Focus	Check	Generate
	Identify	Illustrate	Classify	Carry out	Distinguish	Select	Coordinate	Hypothesize
KBS	Recall	Categorize	Summarize	Use	Organize	Outline	Detect	Plan
VERBS	Retrieve	Generalize	Infer	Implement	Integrate		Monitor	Design
		Conclude	Explain		Structure		Test	Produce
		Predict	Compare		Attribute		Critique	Construct
		Contrast	Map		Deconstruct		Judge	
QUESTIONS	What happened	How would you explain		How would you	What was the turning		Is there a better	What are possible
	after	Who do you think		solve	point?		solution to	solutions to
	How many	Why did		How would you	How is similar to		What do you	How would you
	What is	How would you graph		do	Why did occur		think about	design an
	Who did	Which corresponds to		What would you	What is needed to		and why?	What would
	Where did occur?	What are examples of		say to	What were some of the		Do you think is	happen if
		How could you group		How would you	motives for		a good thing	How many ways
				work a case of			and why?	can you
ACTIVITIES	Make a list	Write a summary of		Solve a problem	Write a biography		Conduct a debate	Design an
	showing	Prepare a flow chart of		Write a response	Make a map showing		(or a mock trial)	experiment
	Make a time line	Write an explanation of		to a case study	interrelationships		Write a critique	Create a new
	Make a chart	Make a taxonomy of		Perform a lab	Write an analysis of		Prepare a case	product
	showing	Draw a map/model of		experiment	Write an essay		Write an opinion	Plan a marketing
		Draw a graph of			examining bias in		piece	campaign
		Write possible outcomes of			Construct a chart to			Create art
	Retell an event			organize related data			Design a building	

The Cognitive Dimension