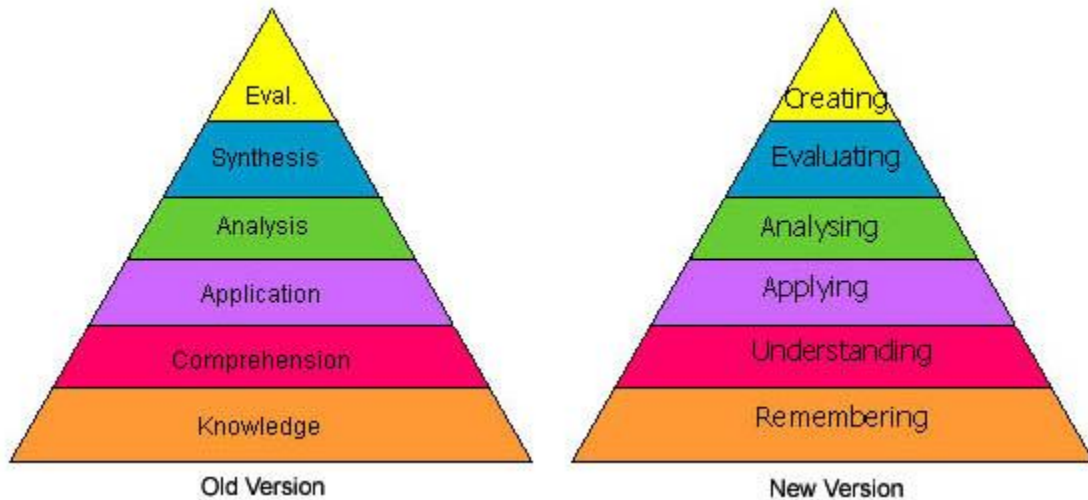


Bloom's Revised Taxonomy

Bloom created a learning taxonomy in 1956. During the 1990's, a former student of Bloom's, Lorin Anderson, updated the taxonomy, hoping to add relevance for 21st century students and teachers. This new expanded taxonomy can help instructional designers and teachers to write and revise learning outcomes.

Bloom's six major categories were changed from noun to **verb** forms.



The new terms are defined as:

Remembering	Retrieving, recognizing, and recalling relevant knowledge from long-term memory.
Understanding	Constructing meaning from oral, written, and graphic messages through interpreting, exemplifying, classifying, summarizing, inferring, comparing, and explaining.
Applying	Carrying out or using a procedure through executing, or implementing.
Analyzing	Breaking material into constituent parts, determining how the parts relate to one another and to an overall structure or purpose through differentiating, organizing, and attributing.
Evaluating	Making judgments based on criteria and standards through checking and critiquing.
Creating	Putting elements together to form a coherent or functional whole; reorganizing elements into a new pattern or structure through generating, planning, or producing.

Because the purpose of writing learning outcomes is to define what the instructor wants the student to do with the content, using learning outcomes will help students to better understand the purpose of each activity by clarifying the student's activity. Verbs such as "know", "appreciate", "internalizing", and "valuing" do not define an explicit performance to be carried out by the learner. ([Mager, 1997](#))

Unclear Outcomes	Revised Outcomes
<p data-bbox="402 516 776 575">Students will know described cases of mental disorders.</p>	<p data-bbox="881 516 1292 638">Students will be able to review a set of facts and will be able to classify the appropriate type of mental disorder.</p>
<p data-bbox="402 699 818 793">Students will understand the relevant and irrelevant numbers in a mathematical word problem.</p>	<p data-bbox="881 699 1308 793">Students will distinguish between relevant and irrelevant numbers in a mathematical word problem.</p>
<p data-bbox="402 842 813 921">Students will know the best way to solve the word problem.</p>	<p data-bbox="881 842 1287 947">Students will judge which of the two methods is the best way to solve the word problem.</p>

Figure 2: Examples of unclear and revised outcomes.

References

- Anderson, L. W., & Krathwohl, D. R. (Eds.). (2001). A taxonomy for learning, teaching and assessing: A revision of Bloom's Taxonomy of educational outcomes: Complete edition, New York : Longman.
- Cruz, E. (2003). Bloom's revised taxonomy. In B. Hoffman (Ed.), *Encyclopedia of Educational Technology*. Retrieved August 22, 2007, from <http://coe.sdsu.edu/eet/articles/bloomrev/start.htm>
- Forehand, M. (2005). Bloom's taxonomy: Original and revised.. In M. Orey (Ed.), *Emerging perspectives on learning, teaching, and technology*. Retrieved August 22, 2007, from <http://projects.coe.uga.edu/epltt/>