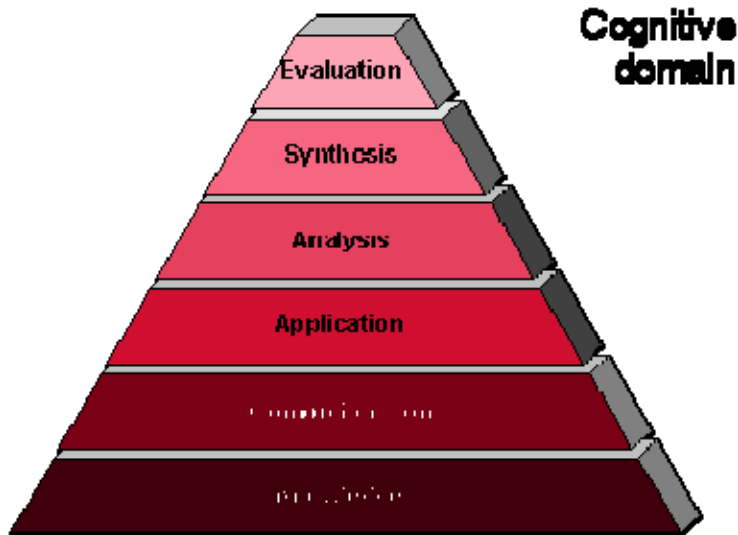


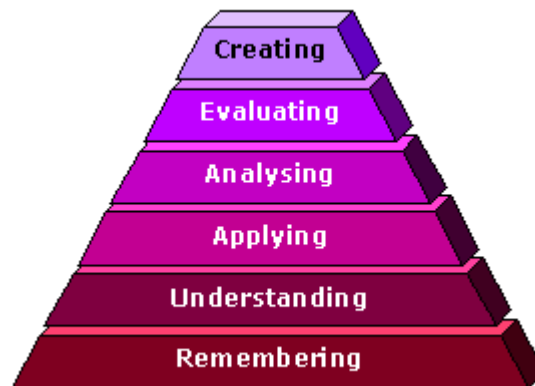
## “BLOOM’S TAXONOMY 101”

Information compiled for *Design Your Course*,  
A Workshop Presented by ISU’s Center for Teaching, Learning & Technology

**Cognitive:** the most-used of the domains [cognitive, affective, and psycho-motor], refers to knowledge structures (although sheer “knowing the facts” is its bottom level). It can be viewed as a sequence of progressive contextualisation of the material. (Based on [Bloom,1956](#))



The model above is included because it is still common currency, but [Anderson and Krathwohl \(2001\)](#) have made some apparently minor but actually significant modifications, to come up with:



*Revised taxonomy of the cognitive domain  
following Anderson and Krathwohl (2001)*

Note the new top category, which is about being able to create new knowledge within the domain, and the move from nouns to verbs.

(SOURCE: <http://www.learningandteaching.info/learning/bloomtax.htm>)

# BLOOM'S TAXONOMY

## Learning Objective Verbs at Each Bloom Taxonomy Level

COGNITIVE LEVEL	ILLUSTRATIVE VERBS	DEFINITIONS
<b>KNOWLEDGE</b>	arrange, define, describe, duplicate, identify, label, list, match, memorize, name, order, outline, recognize, relate, recall, repeat, reproduce, select, state	remembering previously learned information
<b>COMPREHENSION</b>	classify, convert, defend, discuss, distinguish, estimate, explain, express, extend, generalize, give example(s), identify, indicate, infer, locate, paraphrase, predict, recognize, rewrite, report, restate, review, select, summarize, translate	grasping the meaning of information
<b>APPLICATION</b>	apply, change, choose, compute, demonstrate, discover, dramatize, employ, illustrate, interpret, manipulate, modify, operate, practice, predict, prepare, produce, relate schedule, show, sketch, solve, use write	applying knowledge to actual situations
<b>ANALYSIS</b>	analyze, appraise, breakdown, calculate, categorize, classify, compare, contrast, criticize, derive, diagram, differentiate, discriminate, distinguish, examine, experiment, identify, illustrate, infer, interpret, model, outline, point out, question, relate, select, separate, subdivide, test	breaking down objects or ideas into simpler parts and seeing how the parts relate and are organized
<b>SYNTHESIS</b>	arrange, assemble, categorize, collect, combine, comply, compose, construct, create, design, develop, devise, explain, formulate, generate, plan, prepare, propose, rearrange, reconstruct, relate, reorganize, revise, rewrite, set up, summarize, synthesize, tell, write	rearranging component ideas into a new whole
<b>EVALUATION</b>	appraise, argue, assess, attach, choose, compare, conclude, contrast, defend, describe, discriminate, estimate, evaluate, explain, judge, justify, interpret, relate, predict, rate, select, summarize, support, value	making judgments based on internal evidence or external criteria

(SOURCE: <http://www.au.af.mil/au/awc/awcgate/edref/bloom.htm>)

## REVISED Bloom's Taxonomy of Cognitive Skills

Level of Thought	Action Words
<b>Creating</b>	combine, devise, integrate, revise, conceive, propose, generalize, originate, compose, extend, construct, organize, design, add, rearrange, synthesize, create, pose, project, produce, expand, rewrite, develop, role, play, modify, plan, imagine, compile, invent, theorize, formulate, hypothesize
<b>Evaluating</b>	judge, conclude, appraise, evaluate, select, defend, weigh, recommend, decide, criticize, compare, consider, contrast, deduce, verify, summarize, relate, solve, critique, assess, justify, debate
<b>Analyzing</b>	ascertain, diagram, outline, diagnose, reduce, contrast, survey, differentiate, associate, conclude, examine, designate, determine, organize, research, investigate, separate, compare, point out, dissect, categorize, infer, subdivide, distinguish, construct, classify, separate, analyze, divide, find, discriminate
<b>Applying</b>	apply, make, manage, relate, classify, employ, predict, show, use, prepare, solve, demonstrate, present, utilize, direct, practice, compute, illustrate, change, choose, interpret, draw, model, modify, sketch, dramatize, paint, collect, produce
<b>Understanding</b>	discover, relate, summarize, explain, rephrase, restate, substitute, match, represent, change, depict, translate, vary, describe, illustrate, reword, distinguish, paraphrase, review, generalize, give examples, express, predict, compare
<b>Remembering</b>	cite, label, name, define, list, quote, pronounce, reproduce, identify, match, recite, state, tell, recall, remember, repeat, recognize, describe, memorize, locate, draw, write, select

(NOTE: This chart represents a compilation of verbs from several sources.)

