

# Learning Taxonomy Levels for Developing Competencies & Learning Outcomes (for the Cognitive and Affective Domains) Reference Guide

December 5, 2013

Cognitive Domain (evidence of change in knowledge, e.g. facilities for facts and figures, conceptual frameworks, and/or metacognition)						
Bloom's Taxonomy Levels (revised) Anderson & Krathwohl	Level 1: Remember	Level 2: Understand	Level 3: Apply	Level 4: Analyze	Level 5: Evaluate	Level 6: Create
Description of Levels	Recall information	Explain ideas or concepts	Use information	Break into parts to explore and understand relationships	Justify decisions	Generate new ideas
Action Verbs*	Define, describe, identify, label, locate, match, memorize, name, recite, recognize, select, state, write	Arrange, associate, clarify, conclude, determine consequences, discuss, draw conclusions, explain, express, generalize, infer, interpret, predict, respond to, restate, translate summarize	Apply, classify, chart, compute, deliver, demonstrate, dramatize, employ, generalize, illustrate, implement, manipulate, order, operate, practice, prepare, produce, sketch, tabulate, transcribe, use, utilize	Analyze, appraise, arrange, calculate, categorize, compare, contrast, correlate, differentiate, distinguish, examine, experiment, inspect, inventory, outline, solve, test, verify	Appraise, assess, choose, compare, confirm, criticize, critique, diagnosis, evaluate, judge, measure, prioritize, prove, rank, rate, recommend, research, revise, select, weigh, validate	Adapt, arrange, build, combine, compose, construct, create, derive, develop, design, draft, formulate, generate, integrate, manage, organize, plan, prepare, propose, reorder, structure, shape, synthesize, transform
Instructional Strategies	Lectures, audio/visuals, examples, analogies, discussions, multi-media activities	Didactic questions, discussion, review, automated audience response systems, multi-media activities, computer based tutorials, asynchronous online forums	Exercises, drills & practice, demonstrations, projects, sketches, role play, simulations, cooperative learning activities, field observations, audio/visuals, multi-media activities, computer based tutorials, asynchronous online forums	Exercises, case studies, critical incidents, essays, journal critiques, panel discussions, mapping, audio/visuals, multi-media activities, computer based tutorials, asynchronous online forums	Case studies, projects, simulations, panel discussions, comparison activities, audio/visuals, multi-media activities, computer based tutorials, asynchronous online forums	Formation of a hypotheses, case studies, problem solving activities, development plans, simulations, audio/visuals, multi-media activities, computer based tutorials, asynchronous online forums
Evaluation Methods	Pre/post tests, standardized assessments, critiques, reports, presentations, essays, case studies, simulation performances, actual performance, interviews, portfolios, debates, blogs, theses, self-reports, reflection papers, self-evaluations					

Materials adapted from:

Anderson, L. W. and David R. Krathwohl, D. R., et al (2001) A taxonomy for learning, teaching, and assessing: A revision of bloom's taxonomy of educational objectives. Allyn & Bacon. Boston, MA (Pearson Education Group)

Caffarella, R.(2002). Planning programs for adult learners: A practical guide for educators, trainers, and staff developers. San Francisco,CA: Jossey-Bass Publishing.

Suskie, L. (2009). Assessing student learning: A common sense guide (2nd ed). San Francisco, CA: Jossey-Bass Publishing

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*\* the listed verbs represent a few of the more prominent examples from a very wide range of possible action verbs*

Affective Domain (evidence of change in attitudes, e.g. motivational dispositions, perceptions, values, and/or opinions)					
<b>Bloom's Taxonomy Levels (revised) Anderson &amp; Krathwohl</b>	Level 1: Receive	Level 2: Respond	Level 3: Value	Level 4: Organize	Level 5: Characterize by Value
<b>Description of Levels</b>	Be open to experience and willing to hear	React and actively participate	Attach value and express personal opinions	Bring together and resolve internal conflicts	Adopt belief systems and philosophies
<b>Action Verbs*</b>	Acknowledge, ask, attend, be open to, concentrate, do, discuss, follow, read, take part	Agree, ask, cite, clarify, communicate, cooperate, contribute, cite, describe, discuss, identify, react, report, respond, select	Accept, adopt, approve, argue, contribute, encourage, evaluate, initiate, justify, maintain, monitor, support, confront, criticize, debate, persuade, propose, refute	Adapt, adhere, alter, arrange, categorize, classify, compare, design, explain, formulate, modify, organize rate, revise, synthesize, test	Act, advocate, characterize, conform, devote, defend, disclose, discriminate, display, exemplify, incorporate, justify, maintain, promote, uphold, use
<b>Instructional Strategies</b>	Lectures, symposia, discussions, computer based tutorials, asynchronous online forums	Lectures, panel discussions, small group activities, didactic questions, scenarios, role playing	Lectures, panel discussions, small group activities, didactic questions, scenarios, role playing	Lectures, panel discussions, small group activities, didactic questions, scenarios, role playing	Lectures, panel discussions, small group activities, didactic questions, scenarios, role playing
<b>Evaluation Methods</b>	Reflective papers, persuasive papers, journal writing, focus groups, self-report, portfolios, debates, minute papers, pre/post self-assessment, closed ended tests				

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