

Bloom's Taxonomy

❖ WHAT IS THIS RESOURCE?

An introduction to Bloom's Taxonomy and its use in designing course learning objectives and assessments.

❖ HOW DO I USE IT?

Refer to the chart when composing course learning objectives and selecting appropriate assessment types.

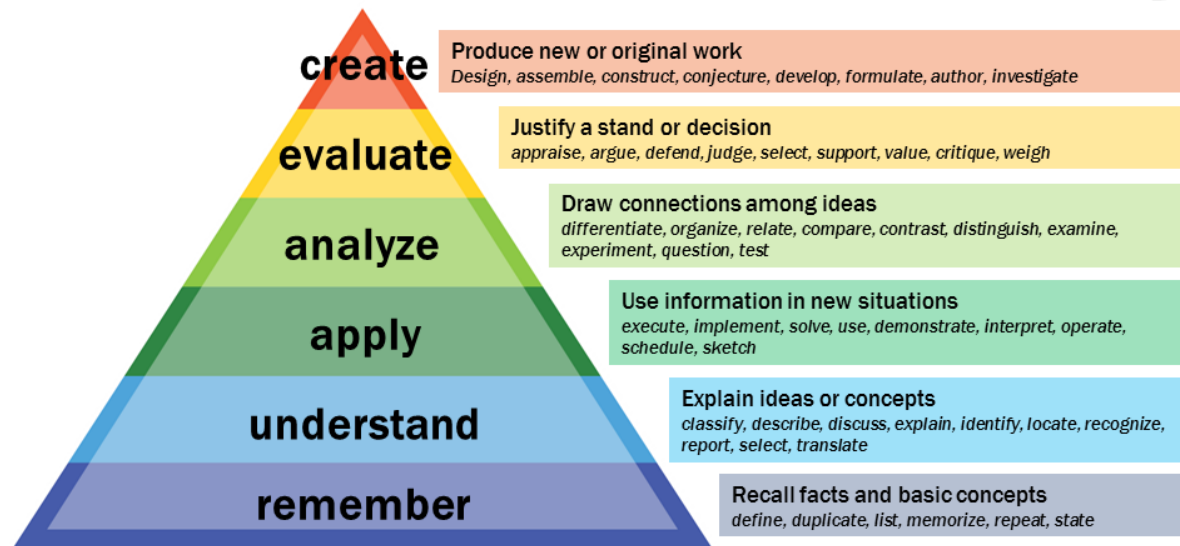
About Bloom's Taxonomy

Bloom's taxonomy is a very useful classification model for learning objectives. It was first proposed by Benjamin Bloom in 1956 and slightly revised in 2001.

Bloom's taxonomy organizes learning objectives according to the type of learning that is being developed. It also has types of learning ranked from low to high, with the lowest level of learning being the recall of facts and basic concepts, and the highest level being creation of original work. The skills toward the top of the pyramid involve what we call higher-level thinking.

Note that there is no implication that learning at the top of the pyramid is more valid or valuable than at the bottom. In some cases, simple remembering skills are exactly what's needed in a situation, sometimes it's creation. It depends on the goals being achieved. Below is a diagram of Bloom's Taxonomy.

Bloom's Taxonomy



 Vanderbilt University Center for Teaching

Bloom's Taxonomy is frequently used in course design. Once the taxonomic level of desired learning is decided, the chart below suggests relevant action verbs that can be used in written learning objectives. The chart also suggests appropriate types of assessments or assignments.

VERBS & ASSESSMENTS FOR EACH LEVEL OF BLOOM'S TAXONOMY

REMEMBER			
Action verbs for learning objectives			Appropriate assessment types
Define	State	Enumerate	Fill-in-the-blank
Identify	Quote	Omit	Multiple choice
Describe	Reproduce	Recite	Labeling
Label	Tabulate	Record	Matching
List	Tell	Repeat	Short written response
Match	Copy	Retell	Worksheet
Select	Duplicate	Outline	Workbook
Recall	Arrange	Recognize	
Name	Underline	Locate	

UNDERSTAND

Action verbs for learning objectives			Appropriate assessment types
Explain	Interpret	Infer	Essay
Describe	Classify	Relate	Exam
Paraphrase	Distinguish	Cite	Problem set
Summarize	Associate	Generalize	Class discussion
Compare	Demonstrate	Rewrite	Concept map
Discuss	Express	Trace	Oral report
Predict	Indicate	Transform	Outline
Convert	Estimate	Group	Story problem
Give examples	Translate	Illustrate	Dramatization
Order			Debate

APPLY

Action verbs for learning objectives			Appropriate assessment types
Solve	Experiment	Employ	Problem set
Apply	Dramatize	Explain	Performance
Use	Manipulate	Interview	Lab experiment
Calculate	Paint	Operate	Simulation
Relate	Prepare	Practice	Clinical work
Complete	Act	Predict	Role play
Construct	Administer	Simulate	Demonstration
Produce	Compute	Sketch	Map
Chart	Develop	Discover	Diagram
Collect	Change	Schedule	Prediction
Illustrate	Demonstrate	Write	Model
Modify			Illustration

ANALYZE

Action verbs for learning objectives			Appropriate assessment types
Analyze	Classify	Advertise	Case study
Compare	Contrast	Conclude	Critique
Infer	Separate	Deduce	Lab experiment
Differentiate	Discriminate	Devise	Essay
Categorize	Divide	Outline	Project
Correlate	Order	Plan	Debate
Diagram	Subdivide	Troubleshoot	Concept map
Organize	Survey	Illustrate	Reflection
Plan	Dissect	Deconstruct	Data analysis
Test	Estimate	Diagram	Spreadsheet
Investigate	interpret	Group	Graph

EVALUATE

Action verbs for learning objectives			Appropriate assessment types
Critique	Judge	Conclude	Journal
Evaluate	Support	Consider	Diary
Appraise	Discriminate	Debate	Critique
Decide	Assess	Justify	Problem set
Recommend	Measure	Persuade	Product review
Convince	Grade	Appraise	Study
Defend	Rank	Monitor	Peer review
Find errors	Select	Detect	Revision
Score	Rate	Validate	Survey
Argue	Weigh		Editorial

CREATE

Action verbs for learning objectives			Appropriate assessment types
Design	Plan	Prepare	Research project
Compose	Write	Assemble	Musical composition
Create	Compile	Collaborate	Performance
Formulate	Construct	Devise	Essay
Hypothesize	Develop	Make	Business plan
Compile	Integrate	Negotiate	Product design
Modify	Organize	Facilitate	Job aid
Rewrite	Structure	Propose	Infographic
Generate	Act	Show	Portfolio
Improve	Arrange	Invent	Poem
Revise			Advertisement
			Video
			Blueprint

References:

<http://www.fresnostate.edu/academics/oie/documents/assesments/Blooms%20Level.pdf>
www.literacychick.com/uploads/7/7/4/0/7740257/200+_blooms_verbs.docx
<http://www.cmu.edu/teaching/assessment/basics/alignment.html>
<https://www.cloud.edu/Assets/PDFs/assessment/revised-blooms-chart.pdf>