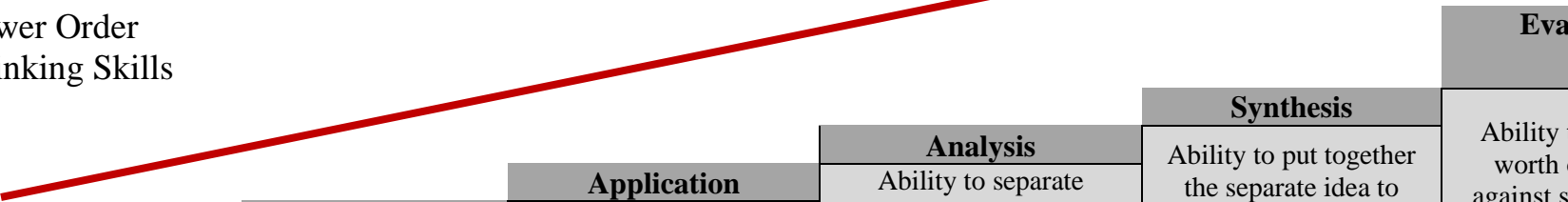


Bloom's Taxonomy 1956

Higher Order
Thinking Skills

Lower Order
Thinking Skills



| Knowledge | | Application | | Synthesis | | Evaluation | |
|--|-------------|--|------------|--|--------------|--|--|
| Comprehension | | Analysis | | Synthesis | | Evaluation | |
| Ability to grasp meaning, explain, and restate ideas | | Ability to use learned material in new situations | | Ability to separate material into component parts and show relationships between parts | | Ability to put together the separate idea to form new whole, establish | |
| Ability to recall previously learned material | | Ability to Judge the worth of material against stated criteria | | | | | |
| Classify | Apply | Analyze | Arrange | Appraise | Argue | | |
| Compare | Change | Appraise | Assemble | Assess | Choose | | |
| Convert | Choose | Breakdown | Categorize | Compare | Compare | | |
| Defend | Complete | Calculate | Combine | Conclude | Conclude | | |
| Describe | Construct | Categorize | Comply | Contrast | Contrast | | |
| Duplicate | Demonstrate | Compare | Compose | Defend | Defend | | |
| Identify | Discover | Contrast | Construct | Describe | Describe | | |
| Label | Dramatize | Criticize | Create | Discriminate | Discriminate | | |
| List | Employ | Debate | Design | Estimate | Estimate | | |
| Match | Illustrate | Diagram | Develop | Evaluate | Evaluate | | |
| Memorize | Interpret | Differentiate | Devise | Explain | Explain | | |
| Name | Manipulate | Discriminate | Explain | Interpret | Interpret | | |
| Order | Modify | Distinguish | Formulate | Judge | Judge | | |
| Outline | Operate | Examine | Generate | Justify | Justify | | |
| Recognize | Practice | Experiment | manage | Measure | Measure | | |
| Relate | Predict | Identify | Organize | Predict | Predict | | |
| Recall | Infer | Prepare | Plan | Rate | Rate | | |

| Knowledge | Comprehension | Application | Analysis | Synthesis | Evaluation |
|-----------|---------------|-------------|-----------|-------------|------------|
| Record | Locate | Produce | Infer | Prepare | Revise |
| Repeat | Paraphrase | Relate | Inspect | Rearrange | Score |
| Reproduce | Predict | Schedule | Inventory | Reconstruct | Select |
| Select | Recognize | Show | Model | Relate | Support |
| State | Restate | Sketch | Outline | Reorganize | value |
| Tell | Rewrite | Solve | Point out | Revise | |
| Underline | Review | Use | Question | Rewrite | |
| | Select | Write | Relate | Set up | |
| | Summarize | | Select | Summarize | |
| | Tell | | Separate | Synthesize | |
| | Translate | | | Tell | |
| | | | | Write | |

Some of this material was adopted from:

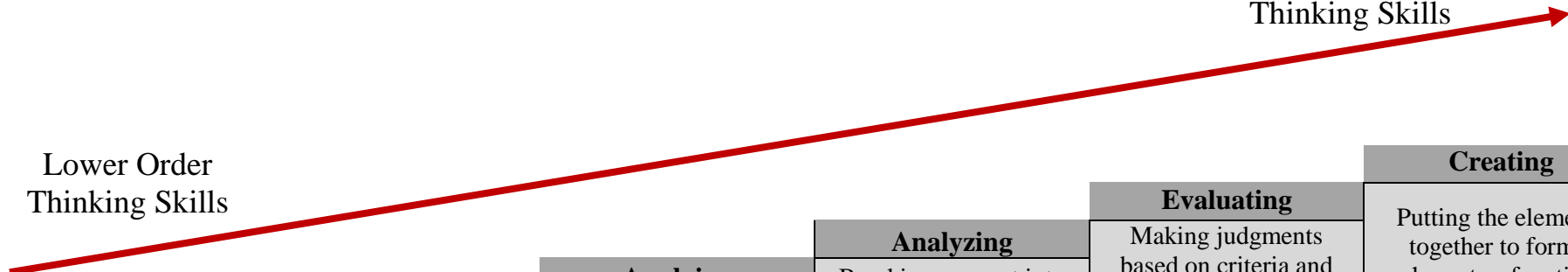
Anderson, L.W., & Krathwohl (Eds.). (2001). *A Taxonomy for Learning, Teaching, and Assessing: A Revision of Bloom's Taxonomy of Educational Objectives*. New York: Longman.

Bloom, B.S. and Krathwohl, D. R. (1956). *Taxonomy of Educational Objectives: The Classification of Educational Goals, by a committee of college and university examiners. Handbook I: Cognitive Domain*. NY, NY: Longmans, Green

Churches, A. (2007). Bloom's Digital Taxonomy. Retrieved from <http://www.techlearning.com/techlearning/archives/2008/04/AndrewChurches.pdf>

University of West Florida's Center for University Teaching, Learning, and Assessment. Action Words for Bloom's Taxonomy. Retrieved from <http://uwf.edu/cutla/SLO/ActionWords.pdf>

Lower Order Thinking Skills



| Remembering | | Understanding | Applying | Analyzing | Evaluating | Creating |
|---|-----------|--|--|--|--|--|
| Retrieving, recalling or recognizing knowledge from memory. | | Constructing meaning from different types of function be they written or graphic | Carrying out or using a procedure through executing or implementing. | Breaking concept into part, determining how the parts relate to one another or to an overall structure or purpose. | Making judgments based on criteria and standards through checking and critiquing | Putting the elements together to form a coherent or functional whole |
| Arrange | Define | Ask | Act | Advertise | Appraise | Adapt |
| Describe | Duplicate | Associate | Administer | Analyze | Argue | Anticipate |
| Identify | Locate | Cite | Articulate | Appraise | Assess | Arrange |
| Label | List | Classify | Apply | Breakdown | Choose | Assemble |
| Match | Memorize | Compare | Calculate | Calculate | Conclude | Categorize |
| Order | Name | Convert | Chart | Categorize | Contrast | Collaborate |
| Outline | Quote | Defend | Collect | Classify | Convince | Collect |
| Relate | Recognize | Discuss | Compute | Compare | Critique | Combine |
| Recall | Remember | Describe | Change | Conclude | Debate | Comply |
| | | Distinguish | Choose | Connect | Decide | Compose |
| | | Demonstrate | Complete | Contrast | Defend | Construct |
| | | Discover | Construct | Correlate | Describe | Create |
| | | Differentiate | Demonstrate | Criticize | Discriminate | Design |
| | | Estimate | Discover | Debate | Distinguish | Develop |
| | | Explain | Dramatize | Deduce | Editorialize | Devise |
| | | Express | Develop | Devise | Evaluate | Explain |
| | | Extend | Establish | Diagram | Estimate | Express |
| | | | Examine | Differentiate | Explain | Facilitate |
| | | | Explain | Discriminate | Find errors | Formulate |
| | | | | | | Generate |
| | | | | | | Imagine |

| Remembering | Understanding | Applying | Analyzing | Evaluating | Creating |
|--------------------|----------------------|-----------------|------------------|-------------------|-----------------|
| Record | Give Example(s) | Employ | Distinguish | Grade | Infer |
| Repeat | Group | Illustrate | Dissect | Interpret | Intervene |
| Reproduce | Identify | Interpret | Divide | Judge | Justify |
| Select | Indicate | Judge | Estimate | Justify | Make |
| State | Infer | List | Evaluate | Measure | Manage |
| Tell | Illustrate | Manipulate | Examine | Order | Negotiate |
| Underline | Judge | Modify | Experiment | Persuade | Organize |
| Visualize | Paraphrase | Operate | Explain | Predict | Originate |
| | Predict | Practice | Focus | Rank | Plan |
| | Recognize | Predict | Identify | Rate | Prepare |
| | Restate | Prepare | Illustrate | Recommend | Propose |
| | Rewrite | Produce | Infer | Reframe | Rearrange |
| | Review | Relate | Inspect | Revise | Reconstruct |
| | Select | Record | Inventory | Score | Relate |
| | Summarize | Simulate | Model | Select | Reorganize |
| | Show | Schedule | Order | Support | Revise |
| | Tell | Show | Organize | value | Rewrite |
| | Translate | Sketch | Outline | Rewrite | Schematize |
| | Trace | Solve | Plan | Set up | Set up |
| | Transform | Teach | Point out | Summarize | Simulate |
| | | Transfer | Prioritize | Synthesize | Solve |
| | | Utilize | Question | Tell | Speculate |
| | | Use | Relate | Value | Structure |
| | | Write | Select | Weight | Support |
| | | | Separate | Write | Summarize |
| | | | Subdivide | | Synthesize |
| | | | Survey | | Test |
| | | | Test | | Tell |
| | | | | | Validate |