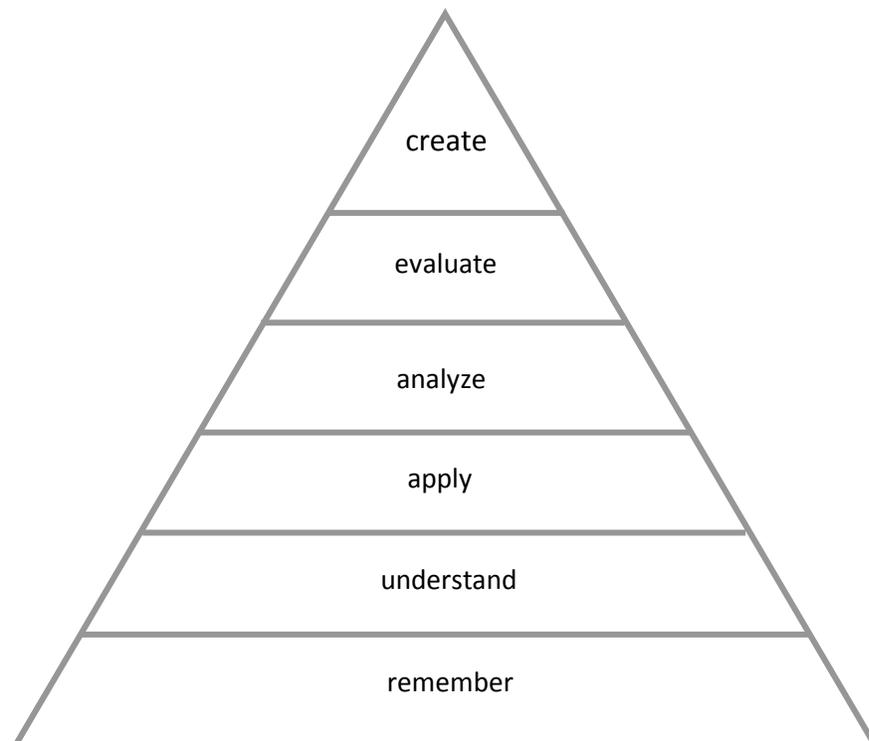


## Revised Bloom's Taxonomy<sup>1, 2</sup>

Benjamin Bloom created the Taxonomy of Educational Objectives in 1956 as a means of expressing qualitatively different kinds of thinking. Bloom's Taxonomy has since been adapted for classroom use as a planning tool and continues to be one of the most universally applied models across all levels of schooling and in all areas of study.

### **The Revised Bloom's Taxonomy**

During the 1990s, Lorin Anderson (a former student of Benjamin Bloom) led a team of cognitive psychologists in revisiting the taxonomy to examine the relevance of the taxonomy as we enter the 21st century. As a result of the investigation, a number of significant improvements were made to the existing structure.



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<sup>1</sup> 1. Bloom, Benjamin S. & David R. Krathwohl. (1956). Taxonomy of educational objectives: The classification of educational goals, by a committee of college and university examiners. Handbook 1: Cognitive domain. New York, Longmans.

<sup>2</sup> 2. Lynn Schultz, Old Dominion University  
[http://www.odu.edu/educ/lischult/blooms\\_taxonomy.htm](http://www.odu.edu/educ/lischult/blooms_taxonomy.htm)

## Revised Bloom's Taxonomy – Categories (from less to more complex)

### **REMEMBERING**

*Recognize, list, describe, identify retrieve, name ....*

Can the student RECALL information?

#### **Recognizing**

Locating knowledge in memory that is consistent with presented material.

Synonyms: Identifying...

#### **Recalling**

Retrieving relevant knowledge from long-term memory.

Synonyms : Retrieving... Naming...

### **UNDERSTANDING**

*Interpret, exemplify, summarize, infer, paraphrase ....*

Can the student EXPLAIN ideas or concepts?

#### **Interpreting**

Changing from one form of representation to another

Synonyms : Paraphrasing... Translating,...Representing,... Clarifying...

#### **Exemplifying**

Finding a specific example or illustration of a concept or principle

Synonyms : Instantiating... Illustrating...

#### **Classifying**

Determining that something belongs to a category (e.g., concept or principle).

Synonyms : Categorizing...Subsuming...

#### **Summarizing**

Drawing a logical conclusion from presented information.

Synonyms : Abstracting... Generalizing...

#### **Inferring**

Abstracting a general theme or major point

Synonyms : Extrapolating... Interpolating.. Predicting... Concluding...

#### **Comparing**

Detecting correspondences between two ideas, objects, etc

Synonyms : Contrasting... Matching ...Mapping...

#### **Explaining**

Constructing a cause-and-effect model of a system.

Synonyms : Constructing models...

## **APPLYING**

*Implement, carry out, use ...*

Can the student USE the new knowledge in another familiar situation?

### **Executing**

Applying knowledge (often procedural) to a routine task.

Synonyms : Carrying out...

### **Implementing**

Applying knowledge (often procedural) to a non-routine task.

Synonyms : Using.

## **ANALYZING**

*Compare, attribute, organize, deconstruct ...*

Can the student DIFFERENTIATE between constituent parts?

### **Differentiating**

Distinguishing relevant from irrelevant parts or important from unimportant parts of presented material.

Synonyms : Discriminating, Selecting, Focusing, Distinguishing,

### **Organizing**

Determining how elements fit or function within a structure.

Synonyms : Outlining, Structuring, Integrating, Finding coherence

### **Attributing**

Determining the point of view, bias, values, or intent underlying presented material.

Synonyms : Deconstructing

## **EVALUATING**

*Check, critique, judge hypothesize ...*

Can the student JUSTIFY a decision or course of action?

### **Checking**

Detecting inconsistencies or fallacies within a process or product. Determining whether a process or product has internal consistency.

Synonyms : Testing, Detecting, Monitoring

### **Critiquing**

Detecting the appropriateness of a procedure for a given task or problem.

Synonyms : Judging

## **CREATING**

*Design, construct, plan, produce ...*

Can the student GENERATE new products, ideas or ways of viewing things?

### **Generating**

Coming up with alternatives or hypotheses based on criteria

Synonyms : Hypothesizing

### **Planning**

Devising a procedure for accomplishing some task. producing

Synonyms : Designing

### **Producing**

Inventing a product.

Synonyms : Constructing