

Bloom's Taxonomy "Revised" Key Words, Model Questions, & Instructional Strategies

Bloom's Taxonomy (1956) has stood the test of time. Recently Anderson & Krathwohl (2001) have proposed some minor changes to include the renaming and reordering of the taxonomy. This reference reflects those recommended changes.

I. REMEMBER (KNOWLEDGE)

(shallow processing: drawing out factual answers, testing recall and recognition)

What does It mean?

Verbs for Objectives choose

Model Questions
Who?
Where?
Which One?

What?

define identify label

describe

el How?

list What is the best one?

locate Why?
match How much?
memorize When?

name omit recite recognize select

state

Instructional Strategies

Highlighting Rehearsal Memorizing Mnemonics

II. UNDERSTAND (COMPREHENSION)

(translating, interpreting and extrapolating)

Verbs for Objectives classify

defend

Model QuestionsState in your own words.
Which are facts?

demonstrate What does this mean? Is this the same as. . .? explain Give an example.

express Select the best definition.

extend Condense this paragraph.

give example What would happen if . . .?

Illustrate State in one word . . .

indicate Explain what is happening. interrelate What part doesn't fit? Explain what is meant.

infer What expectations are there? judge Read the graph (table). What are they saying? This represents... represent What seems to be ...?

represent What seems to be . . .?
restate Is it valid that . . .?
rewrite What seems likely?
select Show in a graph, table.

show Which statements support . . ? summarize What restrictions would you add?

tell translate **Instructional Strategies**

Key examples
Emphasize connections

Elaborate concepts

Summarize Paraphrase

STUDENTS explain
STUDENTS state the rule
"Why does this example. . .?"
create visual representations
(concept maps, outlines, flow
charts organizers, analogies,
pro/con grids) PRO| CON
NOTE: The faculty member can

NOTE: The faculty member can show them, but they have to do it. Metaphors, rubrics, heuristics

III. APPLY

(Knowing when to apply; why to apply; and recognizing patterns of transfer to situations that are new, unfamiliar or have a new slant for students)

Verbs for Objectives apply choose dramatize explain generalize judge organize paint prepare produce select show sketch solve use	Model Questions Predict what would happen if Choose the best statements that apply Judge the effects What would result Tell what would happen Tell how, when, where, why Tell how much change there would be Identify the results of	Instructional Strategies Modeling Cognitive apprenticeships "Mindful" practice – NOT just a "routine" practice Part and whole sequencing Authentic situations "Coached" practice Case studies Simulations Algorithms

IV. ANALYZE (breaking down into parts, forms)

Verbs for Objectives analyze categorize classify compare differentiate distinguish identify infer point out select subdivide survey	Model Questions What is the function of? What's fact? Opinion? What assumptions? What statement is relevant? What motive is there? Related to, extraneous to, not applicable. What conclusions? What does the author believe? What does the author assume? Make a distinction. State the point of view of What is the premise? State the point of view of What ideas apply? What ideas justify the conclusion? What's the relationship between? The least essential statements are What's the main idea? Theme? What inconsistencies, fallacies? What persuasive technique? Implicit in the statement is	Instructional Strategies Models of thinking Challenging assumptions Retrospective analysis Reflection through journaling Debates Discussions and other collaborating learning activities Decision-making situations
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V. EVALUATE (according to some set of criteria, and state why)

Verbs for Objectives

Model Questions

Model Questions

Instructional Strategies Challenging assumptions

appraise iudae

What fallacies, consistencies, inconsistencies appear?

Journaling

criticize defend

Which is more important, moral, better, logical, valid, appropriate?

Debates Discussions and other

Find the errors. compare

collaborating learning activities Decision-making situations

VI. CREATE (SYNTHESIS)

(combining elements into a pattern not clearly there before)

Verbs for Objectives

choose

create

How would you test. . .? combine Propose an alternative. Solve the following. compose construct How else would you . . .? State a rule.

Instructional Strategies

Modeling

Challenging assumptions Reflection through journaling

Debates

Discussions and other

collaborating learning activities

Design

Decision-making situations

design develop do formulate hypothesize invent

make make up originate organize

plan produce role play

tell

Web References:

- http://www.coun.uvic.ca/learn/program/hndouts/bloom.html
- http://www.fwl.org/edtech/blooms.html
- http://apu.edu/~bmccarty/curricula/mse592/intro/tsld006.htm
- http://152.30.11.86/deer/Houghton/learner/think/bloomsTaxonomy.html
- http://amath.colorado.edu/appm/courses/7400/1996Spr/bloom.html
- http://www.stedwards.edu/cte/bloomtax.htm
- http://quarles.unbc.edu/lsc/bloom.html
- http://www.wested.org/tie/dlrn/blooms.html
- http://www.bena.com/ewinters/bloom.html
- http://weber.u.washington.edu/~krumme/guides/bloom.html

References:

Anderson, L. W. & Krathwohl, D. R. (2001). A Taxonomy for learning, teaching, and assessing. Bloom, B. S. (Ed.). (1956). Taxonomy of educational objectives: The classification of educational goals, by a committee of college and university examiners. New York: Longmans.

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