

Bloom's Taxonomy of the Cognitive Domain

Knowledge

remembering previously learned material; recall (facts or whole theories); bringing to mind.

- Who discovered the structure of DNA?
- What are the characteristics of a vector?
- Describe the graph.
- What is the best method for calculating the circumference of a circle?

Comprehension

grasping the meaning of material; interpreting (explaining or summarizing); predicting outcome and effects (estimating future trends).

- Given the present population birth rate, what will be the world population by the year 2005?
- Summarize the process of photosynthesis.
- Distinguish between velocity and speed.

Application

ability to use learned material in a new situation; apply rules laws, methods, theories.

- Given the shape of a lot and the village setback conditions, what is the largest size one-story home you can build on the lot?
- Calculate the net force in this problem.

Analysis

breaking down into parts; understanding organization, clarifying, concluding

- What are the facts and opinions in the article we read?
- Diagram the chapter using a concept map.
- Contrast differentiation and integration in their use of limits.
- Categorize these verbs using Bloom's taxonomy.

Synthesis

ability to put parts together to form a new whole; unique communication; set of abstract relations.

- How would you go about determining the chemical weight of an unknown substance?
- What are the common causes for cell breakdown in each case of mutations, cancer, and aging?
- Plan an experiment to test eth hypothesis.
- Invent a test that would show that the earth rotates.

Evaluation

ability to judge value for purpose; base on criteria; support judgment with reason.

- Rate the arguments for a heliocentric and geocentric view of the universe.
- Justify the use of Newton's Second Law versus Work-Energy in the solution tot eh problem.

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Knowledge

remembering previously learned material; recall (facts or whole theories); bringing to mind.

choose	define	describes
find	how	identifies
label	lists	match
name	omit	recall
relate	select	show
spell	tell	what
when	where	which
who	why	

Comprehension

grasping the meaning of material; interpreting (explaining or summarizing); predicting outcome and effects (estimating future trends).

classify	compare	contrast
convert	defend	demonstrate
distinguish	estimate	explain
extend	generalize	illustrate
infer	interpret	outline
relate	rephrase	rewrite
show	summarize	translate

Application

ability to use learned material in a new situation; apply rules laws, methods, theories.

apply	build	changes
choose	computes	construct
demonstrates	develop	experiment with
identify	interview	make use of
model	operates	organize
plan	select	shows
solve	uses	utilize

Analysis

breaking down into parts; understanding organization, clarifying Identify parts; See related Order; Relationships; Clarify.

analyze	assumption	breaks down
categorize	classify	compare
conclusion	contrast	diagrams
discover	discriminates	dissect
distinction	distinguish	divide
examine	function	inference
inspect	list	motive

outlines	relates	relationships
simplify	subdivides	survey
take part in	test for	theme

Synthesis

ability to put parts together to form a new whole; unique communication; set of abstract relations.

adapt	build	change
choose	combine	compile
composes	construct	create
delete	design	develop
discuss	elaborate	estimate
formulate	happen	imagine
improve	invent	make up
maximize	minimize	modify
originate	plan	predict
propose	rearranges	solution
solve	suppose	test
theorize		

Evaluation

ability to judge value for purpose; base on criteria; support judgment with reason. (No guessing).

agree	appraise	assess
award	choose	compare
compares	conclude	concludes
contrasts	criteria	criticize
criticizes	decide	deduct
defend	determine	discriminates
disprove	dispute	estimate
evaluate	explain	explains
importance	influence	interpret
judge	justify	mark
measure	opinion	perceive
prioritize	prove	rate
recommend	rule on	select
summarizes	supports	value