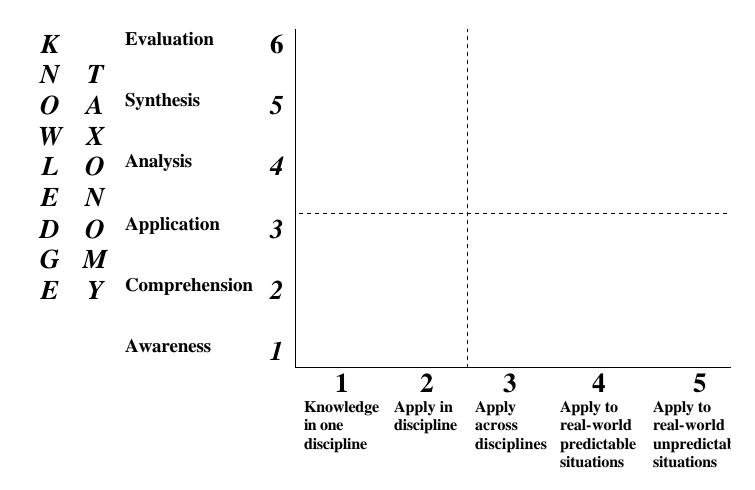
Rigor/Relevance Framework



APPLICATION MODEL

Application Model Decision Tree

Directions: Use the following statements to clarify where a task, application, or activity belongs on the Application Model.

YES		NO
Requires use of knowledge		Requires only recall or understanding
Requires students actually to		_
practice steps in a procedure	Is :4	Requires learning steps in a procedure
Uses previous knowledge to	it	
solve problems, create a design, or communicate information	application?	Requires memorization of facts or formulas
Assesses performance		Assesses content knowledge
Application occurs in same way		Application occurs only in
it is used by adults		school
Standards have access to real- world resources (tools, references, etc.)	Is the application real world?	Lower standards of performance are acceptable
Task must be completed in same	icai worid.	Resources are limited
time frame as real world		Students have extended time to complete task
Application has uncertain		Application involves
results		routine solution
Unknown factors involved (environment, people, time)	Is the	Parameters are controlled
(, propre, mile)	outcome	All students complete
Students have individual and	unpredictable?	similar designs or solutions
unique solutions to problems		

TAXONOMY OF THINKING

Category	Definition	Trigger Words	Products
SYNTHESIS	Re-form individual	Compose, Design,	Lesson, Plan, Song,
	parts to make a	Invent, Create,	Poem, Story, Ad,
	new whole	Hypothesize,	Invention
		Construct, Forecast,	
		Rearrange parts,	
		Imagine, Modify	
		Categorize, Plan,	
	T 1 1 C	Organize, Summarize	D
EVALUATION	Judge value of some-	Judge, Evaluate,	Decision,
	thing vis-à-vis criteria	Give opinion,	Rating/Grades,
		Viewpoint, Prioritize,	Editorial, Debate
	Support judgment	Recommend, Critique,	Critique,
		Criticize, Describe,	Defense/Verdict
		Contrast, Support,	
		Compare, Interpret,	
	TT 1 . 11	Appraise, Explain	
ANALYSIS	Understand how parts	Investigate, Classify,	Survey, Questionnaire,
	relate to a whole	Categorize, Compare,	Plan, Solution, Report,
		Contrast, Solve,	Prospectus
	Understand structure	Distinguish, Select,	
	and motive	Infer, Outline,	
	N-4- 6-11	Separate, Diagram	
	Note fallacies		
APPLICATION	Transfer knowledge	Demonstrate, Use	Recipe, Model,
	Learned in one situa-	guides, maps, charts,	Artwork,
	tion to another	etc., Build, Cook,	Demonstration, Crafts
		Change, Compute,	
		Relate, Solve,	
		Manipulate	
COMPREHENSION	Demonstrate basic	Restate, Give	Drawing, Diagram,
	Understanding of con-	examples, Explain,	Response to question,
	cepts and curriculum	Summarize, Translate,	Revision
		Show symbols, Edit,	
	Translate to other	Infer, Predict, Rewrite,	
	words	Extend, Estimate	
AWARENESS	Ability to remember	Tell, Recite, List,	Workbook pages,
	something previously	Memorize, Remember,	Quiz, Test, Exam,
	learned	Define, Locate, State,	Vocabulary, Facts in
		Define, Label, Match,	isolation
		Identify, Duplicate	

Knowledge Taxonomy Verb List

Listed below are some of the verbs that can be used for constructing and analyzing levels of expected student knowledge.

1		2
Awareness		Comprehension
arrange	match	advance interpret
check	name	calculate outline
choose	point to	change project
find	recall	convert propose
group	recite	contemplate reword
identify	repeat	define submit
label	say	explain transform
list	select	extrapolate translate
locate	write	infer vary
3		4
Applica	tion	Analysis
adopt	manipulate	assay include
consume	mobilize	audit inspect
capitalize on	operate	breakdown look at
devote	put to use	canvass scrutinize
employ	relate	check out sift
exercise	solve	dissect survey
handle	start	deduce study
	take up	divide test for
make use of	utilize	examine uncover
5		6
Synthe		Evaluation
blend	develop	accept grade
build	evolve	appraise judge
cause	form	arbitrate prioritize
combine	generate	assess rank
compile	make up	award rate
compose	originate	classify reject
conceive	produce	criticize rule on
construct	reorder	decide settle
create	structure	determine weigh

Examples of Student Performance by Knowledge Level

	Roller Skating
Knowledge	
Level	
1	Identify equipment
2	Explain safety precautions
3	Roller skate on level ground and hills
4	Examine skills and weaknesses
5	Develop a plan for improvement
6	Assess someone else's skills

	Nutrition
Knowledge	
Level	
1	Label foods by group
2	Explain nutritional values of foods
3	Eat balanced meals
4	Study success in achieving nutrition goals
5	Generate revised nutrition goals
6	Appraise results of nutrition habits

	1. Awareness
	2. Comprehension
	3. Application
	4. Analysis
	5. Synthesis
	6. Evaluation

Examples of Student Performance By Application Level

	Interviewing Skills
Application	
Level	
1	List steps in preparing for interview
2	Participate in a mock interview
3	Conduct interview for school-based business
4	Select appropriate apparel and grooming for an interview
5	Interview for a job

	Public Speaking
Application	
Level	
1	List characteristics of a good speech
2	Give a presentation to a class
3	Make an oral defense of a senior exhibition or project
4	Present a point of view on an issue at a public meeting
5	Respond to questions as a student representative at a
	board of education meeting

	1. Knowledge in one discipline
	2. Apply knowledge in discipline
Application	3. Apply knowledge across disciplines
Model	4. Apply knowledge to real-world predictable situations
	5. Apply knowledge to real-world unpredictable
	situations

Determining Levels Of Rigor and Relevance

	Application Level	Knowledge Level
1. Calculate rate of change in a population.		
2. Identify common land formations (islands, deltas,		
mountains) on a map.		
3. Prepare written and oral arguments to support a change		
in a school policy.		
4. Predict, evaluate, and rank minerals by hardness.		
5. Compare and contrast two short stories.		
6. Describe in your own terms the meaning if one of the		
amendments in the Bill of Rights.		
7. Read a bus schedule to determine the length of time for		
an across-city trip and which buses to take.		
8. Determine all factors of a whole number.		
9. Multiply in your head pairs of numbers less than 12.		
10. Write directions on how to determine if the batteries are		
dead in a portable electronic device.		
11. Edit a letter for correct grammar and spelling.		
12. Develop a mathematical model for estimating a large		
number of objects.		
13. Research a topic and give an oral report to the class.		
14. Convert English measurement to decimal equivalents.		
15. Determine information from a graph or statistics.		

Determining Levels Of Rigor and Relevance

A	Application Level	Knowledge Level
1. Calculate rate of change in a population.	4	3
2. Identify common land formations (islands, deltas,	2	2
mountains) on a map.		
3. Prepare written and oral arguments to support a change	5	5
in a school policy.		
4. Predict, evaluate, and rank minerals by hardness.	2	2
5. Compare and contrast two short stories.	2	4
6. Describe in your own terms the meaning if one of the	4	2
amendments in the Bill of Rights.		
7. Read a bus schedule to determine the length of time for	4	4
an across-city trip and which buses to take.		
8. Determine all factors of a whole number.	2	4
9. Multiply in your head pairs of numbers less than 12.	1	1
10. Write directions on how to determine if the batteries are	4	5
dead in a portable electronic device.		
11. Edit a letter for correct grammar and spelling.	4	3
12. Develop a mathematical model for estimating a large	4	5
number of objects.		
13. Research a topic and give an oral report to the class.	2	5
14. Convert English measurement to decimal equivalents.	2	2
15. Determine information from a graph or statistics.	4	4