

# DOK Question Stems

<p><b>DOK 1</b></p> <ul style="list-style-type: none"> <li>• Can you recall ____?</li> <li>• When did ____ happen?</li> <li>• Who was ____?</li> <li>• How can you recognize ____?</li> <li>• What is ____?</li> <li>• How can you find the meaning of ____?</li> <li>• Can you recall ____?</li> <li>• Can you select ____?</li> <li>• How would you write ____?</li> <li>• What might you include on a list about ____?</li> <li>• Who discovered ____?</li> <li>• What is the formula for ____?</li> <li>• Can you identify ____?</li> <li>• How would you describe ____?</li> </ul>	<p><b>DOK 2</b></p> <ul style="list-style-type: none"> <li>• Can you explain how ____ affected ____?</li> <li>• How would you apply what you learned to develop ____?</li> <li>• How would you compare ____?</li> <li>• Contrast ____?</li> <li>• How would you classify ____?</li> <li>• How are ____ alike? Different?</li> <li>• How would you classify the type of ____?</li> <li>• What can you say about ____?</li> <li>• How would you summarize ____?</li> <li>• How would you summarize ____?</li> <li>• What steps are needed to edit ____?</li> <li>• When would you use an outline to ____?</li> <li>• How would you estimate ____?</li> <li>• How could you organize ____?</li> <li>• What would you use to classify ____?</li> <li>• What do you notice about ____?</li> </ul>
<p><b>DOK 3</b></p> <ul style="list-style-type: none"> <li>• How is ____ related to ____?</li> <li>• What conclusions can you draw ____?</li> <li>• How would you adapt ____ to create a different ____?</li> <li>• How would you test ____?</li> <li>• Can you predict the outcome if ____?</li> <li>• What is the best answer? Why?</li> <li>• What conclusion can be drawn from these three texts?</li> <li>• What is your interpretation of this text? Support your rationale.</li> <li>• How would you describe the sequence of ____?</li> <li>• What facts would you select to support ____?</li> <li>• Can you elaborate on the reason ____?</li> <li>• What would happen if ____?</li> <li>• Can you formulate a theory for ____?</li> <li>• How would you test ____?</li> <li>• Can you elaborate on the reason ____?</li> </ul>	<p><b>DOK 4</b></p> <ul style="list-style-type: none"> <li>• Write a thesis, drawing conclusions from multiple sources.</li> <li>• Design and conduct an experiment. Gather information to develop alternative explanations for the results of an experiment.</li> <li>• Write a research paper on a topic.</li> <li>• Apply information from one text to another text to develop a persuasive argument.</li> <li>• What information can you gather to support your idea about ____?</li> <li>• DOK 4 would most likely be the writing of a research paper or applying information from one text to another text to develop a persuasive argument.</li> <li>• DOK 4 requires time for extended thinking.</li> </ul>

**Table 2: Hess' Cognitive Rigor Matrix with Curricular Examples: Applying Webb's Depth-of-Knowledge Levels to Bloom's Cognitive Process Dimensions**

Bloom's Revised Taxonomy of Cognitive Process Dimensions		Webb's Depth-of-Knowledge (DOK) Levels			
		Level 1 Recall & Reproduction	Level 2 Skills & Concepts	Level 3 Strategic Thinking/ Reasoning	Level 4 Extended Thinking
<b>Remember</b> Retrieve knowledge from long-term memory, recognize, recall, locate, identify	Recall, recognize, or locate basic facts, ideas, principles Recall or identify conversions: between representations, numbers, or units of measure Identify facts/details in texts	Specify and explain relationships Give non-examples/examples Make and record observations Take notes; organize ideas/data Summarize results, concepts, ideas Make basic inferences or logical predictions from data or texts Identify main ideas or accurate generalizations	Explain, generalize, or connect ideas using supporting evidence Explain thinking when more than one response is possible Explain phenomena in terms of concepts Write full composition to meet specific purpose Identify themes	Explain how concepts or ideas specifically relate to other content domains or concepts Develop generalizations of the results obtained or strategies used and apply them to new problem situations	
<b>Understand</b> Construct meaning, clarify, paraphrase, represent, translate, illustrate, give examples, classify, categorize, summarize, generalize, infer a logical conclusion (such as from examples given), predict, compare/contrast, match like ideas, explain, construct models	Compose & decompose numbers Evaluate an expression Locate points (grid/ number line) Represent math relationships in words pictures, or symbols Write simple sentences Select appropriate word for intended meaning Describe/explain how or why	Follow a procedure according to task needed and perform it Solve routine problem applying multiple concepts or decision points Retrieve information from a table, graph, or figure and use it solve a problem requiring multiple steps Use models to represent concepts Write paragraph using appropriate organization, text structure, and signal words	Use concepts to solve non-routine problems Design investigation for a specific purpose or research question Conduct a designed investigation Apply concepts to solve non-routine problems Use reasoning, planning, and evidence Revise final draft for meaning or progression of ideas	Select or devise an approach among many alternatives to solve a novel problem Conduct a project that specifies a problem, identifies solution paths, solves the problem, and reports results Illustrate how multiple themes (historical, geographic, social) may be interrelated	
<b>Apply</b> Carry out or use a procedure in a given situation; carry out (apply to a familiar task), or use (apply) to an unfamiliar task	Follow simple/routine procedure (recipe-type directions) Solve a one-step problem Calculate, measure, apply a rule Apply an algorithm or formula (area, perimeter, etc.) Represent in words or diagrams a concept or relationship Apply rules or use resources to edit spelling, grammar, punctuation, conventions	Categorize, classify materials Compare/ contrast figures or data Select appropriate display data Organize or interpret (simple) data Extend a pattern Identify use of literary devices Identify text structure of paragraph Distinguish: relevant-irrelevant information; fact/opinion	Compare information within or across data sets or texts Analyze and draw conclusions from more complex data Generalize a pattern Organize/interpret data: complex graph Analyze author's craft, viewpoint, or potential bias	Analyze multiple sources of evidence or multiple works by the same author, or across genres, or time periods Analyze complex/abstract themes Gather, analyze, and organize information Analyze discourse styles	
<b>Analyze</b> Break into constituent parts, determine how parts relate, differentiate between relevant-irrelevant, distinguish, focus, select, organize, outline, find coherence, deconstruct (e.g., for bias or point of view)	Retrieve information from a table or graph to answer a question Identify or locate specific information contained in maps, charts, tables, graphs, or diagrams	Generate conjectures or hypotheses based on observations or prior knowledge	Cite evidence and develop a logical argument for concepts Describe, compare, and contrast solution methods Verify reasonableness of results Justify conclusions made	Gather, analyze, & evaluate relevancy & accuracy Draw & justify conclusions Apply understanding in a novel way, provide argument or justification for the application	
<b>Evaluate</b> Make judgments based on criteria, check, detect inconsistencies or fallacies, judge, critique	Brainstorm ideas, concepts, or perspectives related to a topic or concept		Synthesize information within one source or text Formulate an original problem, given a situation Develop a complex model for a given situation	Synthesize information across multiple sources or texts Design a model to inform and solve a real-world, complex, or abstract situation	
<b>Create</b> Reorganize elements into new patterns/structures, generate, hypothesize, design, plan, construct, produce					