Hess' Cognitive Rigor Matrix & Curricular Examples: Applying Webb's Depth-of-Knowledge Levels to Bloom's Cognitive Process Dimensions - Reading

Revised Bloom's	Webb's DOK Level 1	Webb's DOK Level 2	Webb's DOK Level 3	Webb's DOK Level 4
Taxonomy Remember Retrieve knowledge from long-term memory, recognize, recall, locate, identify	Recall & Reproduction o Recall, recognize, or locate basic facts, details, events, or ideas explicit in texts o Read words orally in connected text with fluency & accuracy o Define terms	Skills & Concepts	Strategic Thinking/ Reasoning	Extended Thinking
Understand Construct meaning, clarify, paraphrase, represent, translate, illustrate, give examples, classify, categorize, summarize, generalize, infer a logical conclusion), predict, compare/contrast, match like ideas, explain, construct models	 Identify or describe literary elements (characters, setting, sequence, etc.) Select appropriate words when intended meaning/definition is clearly evident Describe/explain who, what, where, when, or how 	 Specify, explain, show relationships; explain why, cause-effect Give non-examples/examples Summarize results, concepts, ideas Make basic inferences or logical predictions from data or texts Identify main ideas or accurate generalizations of texts Locate information to support explicit-implicit central ideas 	 Explain, generalize, or connect ideas using supporting evidence (quote, example, text reference) Identify/ make inferences about explicit or implicit themes Describe how word choice, point of view, or bias may affect the readers' interpretation of a text 	 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
Apply Carry out or use a procedure in a given situation; carry out (apply to a familiar task), or use (apply) to an unfamiliar task	o Use language structure (pre/suffix) or word relationships (synonym/antonym) to determine meaning of words	o Use context to identify the meaning of words/phrases o Obtain and interpret information using text features	o Apply a concept in a new context	o Illustrate how multiple themes (historical, geographic, social) may be interrelated
Analyze 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)	o Identify whether specific information is contained in graphic representations (e.g., map, chart, table, graph, T-chart, diagram) or text features (e.g., headings, subheadings, captions)	 o Categorize/compare literary elements, terms, facts, details, events o Identify use of literary devices o Analyze format, organization, & internal text structure (signal words, transitions, semantic cues) of different texts o Distinguish: relevant-irrelevant information; fact/opinion o Identify characteristic text features; distinguish between texts, genres 	 Analyze information within data sets or texts Analyze interrelationships among concepts, issues, problems Analyze or interpret author's craft (literary devices, viewpoint, or potential bias) to critique a text Use reasoning, planning, and evidence to support inferences 	 Analyze multiple sources of evidence, or multiple works by the same author, or across genres, time periods, themes Analyze complex/abstract themes, perspectives, concepts Gather, analyze, and organize multiple information sources Analyze discourse styles
Evaluate Make judgments based on criteria, check, detect inconsistencies or fallacies, judge, critique			 O Cite evidence and develop a logical argument for conjectures O Describe, compare, and contrast solution methods O Verify reasonableness of results O Critique conclusions drawn 	 Evaluate relevancy, accuracy, & completeness of information from multiple sources Draw & justify conclusions Apply understanding in a novel way, provide argument or justification for the application
Create Reorganize elements into new patterns/structures, generate, hypothesize, design, plan, produce		 Generate conjectures or hypotheses based on observations or prior knowledge and experience 	o Synthesize information within one source or text o Develop a complex model for a given situation o Develop an alternative solution	 Synthesize information across multiple sources or texts Articulate a new voice, alternate theme, new knowledge or perspective

Hess' Cognitive Rigor Matrix & Curricular Examples: Applying Webb's Depth-of-Knowledge Levels to Bloom's Cognitive Process Dimensions - Writing

Revised Bloom's Taxonomy	Webb's DOK Level 1 Recall & Reproduction	Webb's DOK Level 2 Skills & Concepts	Webb's DOK Level 3 Strategic Thinking/ Reasoning	Webb's DOK Level 4 Extended Thinking
Retrieve knowledge from long-term memory, recognize, recall, locate, identify				Extended minking
Understand Construct meaning, clarify, paraphrase, represent, translate, illustrate, give examples, classify, categorize, summarize, generalize, infer a logical conclusion), predict, compare/contrast, match like ideas, explain, construct models	 Describe or define facts, details, terms Select appropriate words to use when intended meaning/definition is clearly evident Write simple sentences 	 Specify, explain, show relationships; explain why, cause-effect Give non-examples/examples Take notes; organize ideas/data Summarize results, concepts, ideas Identify main ideas or accurate generalizations of texts 	 Explain, generalize, or connect ideas using supporting evidence (quote, example, text reference) Write multi-paragraph composition for specific purpose, focus, voice, tone, & audience o 	 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
Apply Carry out or use a procedure in a given situation; carry out (apply to a familiar task), or use (apply) to an unfamiliar task	 Apply rules or use resources to edit specific spelling, grammar, punctuation, conventions, word use Apply basic formats for documenting sources 	 o Use context to identify the meaning of words/phrases o Obtain and interpret information using text features o Develop a text that may be limited to one paragraph o Apply simple organizational structures (paragraph, sentence types) in writing 	 Revise final draft for meaning or progression of ideas Apply internal consistency of text organization and structure to composing a full composition Apply a concept in a new context Apply word choice, point of view, style to impact readers' interpretation of a text 	 Select or devise an approach among many alternatives to research a novel problem Illustrate how multiple themes (historical, geographic, social) may be interrelated
Analyze Break into constituent parts, determine how parts relate, differentiate between relevant-irrelevant, distinguish, focus, select, organize, outline, find coherence, deconstruct (e.g., for bias, point of view)	o Decide which text structure is appropriate to audience and purpose	 Compare literary elements, terms, facts, details, events Analyze format, organization, & internal text structure (signal words, transitions, semantic cues) of different texts Distinguish: relevant-irrelevant information; fact/opinion 	 Analyze interrelationships among concepts, issues, problems Apply tools of author's craft (literary devices, viewpoint, or potential dialogue) with intent Use reasoning, planning, and evidence to support inferences made 	 Analyze multiple sources of evidence, or multiple works by the same author, or across genres, or time periods Analyze complex/abstract themes, perspectives, concepts Gather, analyze, and organize multiple information sources
Evaluate Make judgments based on criteria, check, detect inconsistencies or fallacies, judge, critique			 Cite evidence and develop a logical argument for conjectures Describe, compare, and contrast solution methods Verify reasonableness of results Justify or critique conclusions 	 Evaluate relevancy, accuracy, & completeness of information from multiple sources Draw & justify conclusions Apply understanding in a novel way, provide argument or justification for the application
Create Reorganize elements into new patterns/structures, generate, hypothesize, design, plan, produce	o Brainstorm ideas, concepts, problems, or perspectives related to a topic or concept	 Generate conjectures or hypotheses based on observations or prior knowledge and experience 	 Develop a complex model for a given situation Develop an alternative solution 	o Synthesize information across multiple sources or texts o Articulate a new voice, alternate theme, new knowledge or perspective

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