



TOOL 1

HESS COGNITIVE RIGOR MATRIX (READING CRM):

Applying Webb's Depth-of-Knowledge Levels to Bloom's Cognitive Process Dimensions



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
Remember Retrieve knowledge from long-term memory; recognize, recall, locate, identify	<ul style="list-style-type: none"> Recall, recognize, or locate basic facts, terms, details, events, or ideas explicit in texts Recall words orally in connected text with fluency & accuracy 	Use these Hess CRM curricular examples with most close reading or listening assignments or assessments in any content area.		
Understand Construct meaning; clarify perceptions; represent, translate, illustrate, give examples, classify, categorize, summarize, generalize, infer a logical conclusion, predict, compare/contrast, match like ideas, explain, construct models	<ul style="list-style-type: none"> 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 Define/describe facts, details, terms, principles Write simple sentences 	<ul style="list-style-type: none"> Specify, explain, show relationships, explain why (e.g., cause-effect) Give real-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 	<ul style="list-style-type: none"> Explain, generalize, or connect ideas using supporting evidence (quote, example, find information) Identify/ make inferences about explicit or implicit themes Describe how word choice, point of view, or bias may affect the reader's interpretation of a text Write multi-paragraph composition for specific purpose, focus, voice, tone, & audience 	<ul style="list-style-type: none"> Explain how concepts or ideas specifically relate to other content domains (e.g., social, political, historical) or concepts Develop generalizations of the results obtained or strategies used and apply them to new problem-based situations
Apply Carry out or use a procedure in a given situation; carry out (apply to a familiar task), or use (apply) in an unfamiliar task	<ul style="list-style-type: none"> Use language structure (pre/suffix) or word relationships (synonyms/ antonyms) to determine meaning of words Apply rules or resources to edit spelling, grammar, punctuation, conventions, word use Apply basic formats for documenting sources 	<ul style="list-style-type: none"> Use context to identify the meaning of words/phrases Obtain and interpret information using text features Develop a text that may be limited to one paragraph Apply simple organizational structures (paragraph, sentence type) in writing 	<ul style="list-style-type: none"> Apply a concept in a new context Revise text draft for meaning or progression of ideas Apply internal consistency of text organization and structure to composing a full composition Apply word choice, point of view, style to unique readers' /viewers' interpretation of a text 	<ul style="list-style-type: none"> Elaborate how multiple themes (historical, geographic, social, ethnic, literary) may be interrelated Select or devise an approach among many alternatives to research a novel problem
Analyze Break into constituent parts; determine how parts relate; differentiate between relevant-irrelevant; distinguish facts, select, organize, outline, find coherence, deconstruct (e.g., for bias or point of view)	<ul style="list-style-type: none"> Identify whether specific information is contained in graphic representation (e.g., map, chart, table, graph, T-chart, diagram) or text features (e.g., headings, subheadings, captions) Decide which text structure is appropriate to audience and purpose 	<ul style="list-style-type: none"> Categorize/compare literary elements, terms, facts/details, events Identify use of literary devices Analyze format, organization, & internal text structure (logical work, transitions, semantic cues) of different texts Distinguish relevant-irrelevant information, fact/opinion Identify characteristic text features, distinguish between texts, genres 	<ul style="list-style-type: none"> 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 create or critique a text Use reasoning, planning, and evidence to support inferences 	<ul style="list-style-type: none"> 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	"GUE" - unsubstantiated generalizations + stating an opinion without providing any support for it		<ul style="list-style-type: none"> Cite evidence and develop a logical argument for comparisons Describe, compare, and contrast solution methods Verify reasonableness of results Justify or critique conclusions drawn 	<ul style="list-style-type: none"> Evaluate relevancy, accuracy, & completeness of information from multiple sources 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	<ul style="list-style-type: none"> Examine ideas, concepts, problems, or perspectives related to a topic, principle, or concept 	<ul style="list-style-type: none"> Generate conjectures or hypotheses based on observations or prior knowledge and experience 	<ul style="list-style-type: none"> Synthesize information within one source or text Develop a complex model for a given situation Develop an alternative solution 	<ul style="list-style-type: none"> Synthesize information across multiple sources or texts Articulate a new voice, alternate theme, new knowledge or perspective

Karin Hess And Depth Of Knowledge Matrix

Greg Mullen



Karin Hess And Depth Of Knowledge Matrix:

Applying Depth of Knowledge and Cognitive Rigor Karin Hess, For more than 2 decades Karin Hess has worked with the concept of depth of knowledge DOK and expanded applications of cognitive rigor across content areas and grade levels proving that every student can experience deeper learning This interactive book offers a self guided journey beginning with the basics what DOK is what it is not and debunking common misconceptions about rigor Karin shares how she synthesized ideas from various thinking models with DOK as the foundation to create the Hess Cognitive Rigor Matrices now used in more than 100 countries Each module is framed by frequently asked questions and provides practical tools and strategies for applying a cognitive mindset that supports student centered classrooms from planning instruction that shifts student roles from taking in information to constructing meaning to monitoring progress with assessments that uncover thinking This unique action oriented workbook is a perfect companion to Karin s earlier books and a great DOK refresher for PK 12 staff Learn how to Build a shared understanding of DOK and rigor among your teaching colleagues Shift DOK levels in order to shift teacher student roles in support of learning transfer Create actionable standards based and competency based assessments Analyze and adapt current curricular and assessment materials Explore applications of DOK in progress monitoring and grading

Applying Depth of Knowledge and Cognitive Rigor Karin Hess, 2025-03-28 For more than 2 decades Karin Hess has worked with the concept of depth of knowledge DOK and expanded applications of cognitive rigor across content areas and grade levels proving that every student can experience deeper learning This interactive book offers a self guided journey beginning with the basics what DOK is what it is not and debunking common misconceptions about rigor Karin shares how she synthesized ideas from various thinking models with DOK as the foundation to create the Hess Cognitive Rigor Matrices now used in more than 100 countries Each module is framed by frequently asked questions and provides practical tools and strategies for applying a cognitive mindset that supports student centered classrooms from planning instruction that shifts student roles from taking in information to constructing meaning to monitoring progress with assessments that uncover thinking This unique action oriented workbook is a perfect companion to Karin s earlier books and a great DOK refresher for PK 12 staff Learn how to Build a shared understanding of DOK and rigor among your teaching colleagues Shift DOK levels in order to shift teacher student roles in support of learning transfer Create actionable standards based and competency based assessments Analyze and adapt current curricular and assessment materials Explore applications of DOK in progress monitoring and grading

Rigor by Design, Not Chance Karin Hess, 2023-01-18 A practical and systematic approach to deepening student engagement promoting a growth mindset and building a classroom culture that truly supports thinking and learning Every student deserves access to deep and rigorous learning Still some persistent myths about rigor can get in the way such as the belief that it means more or harder work for everyone rather than challenging and advancing students thinking So how can teachers get more clarity on rigor and foster more meaningful

learning in their classrooms In *Rigor by Design Not Chance* veteran educator Karin Hess offers not only a clear vision of what makes learning deep and rigorous but also a systematic and equitable approach for engaging students of all ages in rich learning tasks To that end she outlines five essential teacher moves that foster thinking and learning

- 1 Ask a series of probing questions of increasing complexity
- 2 Build schemas in each content area
- 3 Consider ways to strategically scaffold learning
- 4 Design complex tasks that emphasize transfer and evidence based solutions
- 5 Engage students in metacognition and reflection throughout the learning process

From there Hess details how to create an actionable assessment cycle that will drive learning forward in any classroom This book offers a treasure trove of strategies student look for behaviors and templates to guide teachers in their work as well as an array of rich performance based assessments to engage and challenge students School leaders and instructional coaches can also benefit from the variety of teacher friendly supports to foster rigorous learning in their schools Ultimately *Rigor by Design Not Chance* helps educators empower students to take greater ownership of their own learning

A Local Assessment Toolkit to Promote Deeper Learning Karin Hess, 2018-02-28 For years educators have turned to the Hess Cognitive Rigor Matrices CRM when it comes to assessment Now for the first time the modules are packaged into one resource to help teachers evaluate the quality and premise of their current assessment system

Making Every Maths Lesson Count Emma McCrea, 2019-05-01 In *Making Every Maths Lesson Count* Six principles to support great maths teaching experienced maths teacher and lecturer Emma McCrea takes away the guesswork as she sums up the key components of effective maths teaching Maths classrooms are incredibly complex places At any given time the factors influencing the effectiveness of your teaching are boundless and this can lead to relying on intuition as to what might work best This book aims to signpost a route through this complexity Writing in the practical engaging style of the award winning *Making Every Lesson Count* Emma McCrea helps teachers to move beyond trial and error by sharing evidence informed tips and suggestions on how they can nudge the impact of their teaching in the right direction *Making Every Maths Lesson Count* is underpinned by six pedagogical principles challenge explanation modelling practice feedback and questioning and presents 52 high impact strategies designed to streamline teacher workload and ramp up the level of challenge in the maths classroom The book draws out the key findings from the latest research on memory learning and motivation and each chapter features numerous worked examples to demonstrate the theory in action together with a concluding series of questions that will help maths practitioners relate the content to their own classroom practice Furthermore Emma s writing offers clarity around the language of maths teaching and learning and also delves into the finer points of how to identify and address any misconceptions that students may hold Written for new and experienced practitioners alike this gimmick free guide provides sensible solutions to perennial problems and inspires a rich challenging and evidence based approach to the teaching of maths Suitable for maths teachers of students aged 11 to 18 years and for primary school maths specialists

How the Brain Learns David A. Sousa, 2022-01-21 Deliver game changing and brain

changing results for your students Research on the brain continues to evolve providing fresh insights educators can use to guide students toward success In the sixth edition of this international bestseller world renowned educational neuroscience consultant David Sousa once again translates that research into concrete actions and strategies for the classroom Featuring important updates and brand new findings the latest edition includes A new section on the expansion of SEL to SECL integrating the cognitive component of social emotional learning Additional research on mindsets including cautions Effective brain compatible ways to safely use social media and online learning New information on the importance of student engagement especially through academic teams Connections between Bloom s Taxonomy and current instructional strategies such as teaming and project maker learning Whether you re already a fan of brain compatible learning or just getting started on this exciting approach to teaching and learning How the Brain Learns will set your neurons firing and give you the tools you need to help students succeed

Creating a Self-Directed Learning Environment Greg Mullen,2019-11-14 Educate the whole child improve the whole school Implementing evidence based and innovative teaching practices can feel like juggling If you have standards based learning in one hand and social emotional learning in the other what do you do with cognitive development This book shows you how to balance all 3 combining these concepts into manageable realistic plans for success In clear easy to follow language master teacher and educational expert Greg Mullen introduces a flexible three tiered visual framework designed for schoolwide collaboration He also offers An integrated philosophy focused on self directed learning and the whole child Research sourced from CASEL and state programs and initiatives Attention to academic inclusion behavior intervention and classroom management Numerous illustrations tables and graphics Tools and supplemental resources for implementation Make innovation work for your school With this guide you and your colleagues will build on your strengths discover the potential of your existing programs and implement smart changes that make a real difference for students

Moving From Spoken to Written Language With ELLs Ivannia Soto,2014-06-20 Mastering spoken language is the key to writing success for English Language Learning ELLs struggle to meet the writing demands of the Common Core State Standards In this book ELL expert Ivannia Soto demonstrates how oral language development is the key to building writing skills She offers educators a powerful set of tools for implementation at both classroom and policy levels including Exciting spoken techniques such as Socratic Seminar Frayer model and Think Pair Share that build vocabulary and extend into academic writing Approaches to teaching three essential styles of writing argumentative procedural and narrative Sample lesson plans and graphic organizer templates

The Art and Science of Lesson Design John R. Walkup,2020-01-11 The Cognitive Rigor Matrix superposes two of the most common tools used in K 12 education Bloom s Revised Taxonomy and Depth of Knowledge This matrix has been adopted by numerous state departments of education and national organizations to evaluate the rigor of educational materials The matrix also offers a powerful ability to help teachers plan and carry out standards based lessons that best support student learning This book aimed at secondary

school teachers of all subjects provides a systematic means of leveraging the Rigor Cube to develop rigorous standards based lesson plans The approach employed in this book includes the development of culminating activities for students to demonstrate their learning identification of standards based lesson content selection of potentially effective instructional methods and student questioning strategies Special methods for supporting students who are deficient in their background knowledge without undermining the rigor of lessons are also included Sample lessons are included that illustrate every step of the lesson planning process from start to finish These sample lesson plans address state content standards related to the Common Core State Standards both math and English language arts Next Generation Science Standards career technical education standards and art

Cognitive Rigor Karin K. Hess, Ben S. Jones, Dennis Carlock, John R. Walkup, 2009 To teach the rigorous skills and knowledge students need to succeed in future college entry courses and workforce training programs education stakeholders have increasingly called for more rigorous curricula instruction and assessments Identifying the critical attributes of rigor and measuring its appearance in curricular materials is therefore fundamental to progress in this area By superposing two widely accepted models for describing rigor Bloom's Taxonomy of Educational Objectives and Webb's Depth of Knowledge DOK model this article defines cognitive rigor CR and introduces the CR matrix for analyzing instruction and enhancing teacher lesson planning Two large scale collections of student work samples analyzed using the CR matrix are presented illustrating the preponderance of curricular items aligned to each cell in the matrix Educators should use the cognitive rigor matrix to align the content in their curricular materials to the instructional techniques used in classroom delivery Contains 3 tables and 1 figure

Deeper Competency-Based Learning Karin Hess, Rose Colby, Daniel Joseph, 2020-05-06 The roadmap for your school's CBE journey The one size fits all instructional and assessment practices of the past no longer equitably meet the needs of all students Competency based education CBE has emerged not only as an innovation in education but as a true transformation of the approaches to how we traditionally do school In Deeper Competency Based Learning the authors share best practices from their experiences implementing CBE across states districts and schools Leaving no stone unturned readers are guided step by step through CBE implementation and validation phases beginning with defining your WHY and collaborative development of the competencies describing deeper learning The CBE readiness tools and reflections inside will help your team Build the foundation for organizational shifts by examining policies leadership culture and professional learning Dig in to shifts in teaching and learning structures by addressing rigorous learning goals competency based assessment evidence based grading and body of evidence validation Take a deep dive into the shift to student centered classrooms through personalized instructional strategies that change mindsets regarding teacher student roles responsibilities and classroom culture Discover how your students can demonstrate deeper learning of academic content and develop personal success skills by maximizing time place and pace of learning with this roadmap for your CBE journey

The Enigmatic Realm of **Karin Hess And Depth Of Knowledge Matrix**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Karin Hess And Depth Of Knowledge Matrix** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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Karin Hess And Depth Of Knowledge Matrix Introduction

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