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	• Recall, recognize, or locate basic facts, terms, details, events, or ideas explicit in texts • Read 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, 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 • Define/describe facts, details, terms, principles • Write simple sentences	• Specify, explain, show relationships, explain why (e.g., 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-explicit 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 • Write multi-paragraph composition for specific purpose, focus, voice, tone, & audience	• 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) to an unfamiliar task	• Use language structure (pre/suffix) or word relationships (synonym/ antonym) to determine meaning of words • Apply rules or resources to edit spelling, grammar, punctuation, conventions, word use • Apply basic formats for documenting sources	• 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 types) in writing	• Apply a concept in a new context • Revise final 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 impact readers' /viewers' interpretation of a text	• Illustrate how multiple themes (historical, geographic, social, artistic, 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, focus, select, organize, outline, find coherence, deconstruct (e.g., for bias or point of view)	• 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) • Decide which text structure is appropriate to audience and purpose	• Categorize/compare literary elements, terms, facts/details, events • Identify use of literary devices • Analyze format, organization, & internal text structure (signal words, transitions, semantic cues) of different texts • Distinguish relevant-irrelevant information, fact/opinion • 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 create or 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	"SO" - unsubstantiated generalizations • stating an opinion without providing any support for it!		• Cite evidence and develop a logical argument for conjectures • Describe, compare, and contrast solution methods • Verify reasonableness of results • Justify or critique conclusions drawn	• 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	• Brainstorm ideas, concepts, problems, or perspectives related to a topic , principle, or concept	• Generate conjectures or hypotheses based on observations or prior knowledge and experience	• Synthesize information within one source or text • Develop a complex model for a given situation • Develop an alternative solution	• Synthesize information across multiple sources or texts • Articulate a new voice, alternate theme, new knowledge or perspective

Karin Hess And Depth Of Knowledge Matrix

LL Leslie

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 **A Local Assessment Toolkit to Promote Deeper Learning** Karin Hess,2018-02-28 Build assessments you can really use Unlock the how when what and why Watch your system become greater than its parts by building local capacity through common language and deeper knowledge of assessment components For years educators have turned to the Hess Cognitive Rigor Matrices CRM Now for the first time the modules are packaged into one resource to help you evaluate the quality and premise of your current assessment system Designed as a professional development guide for long term use by school leaders five content rich topic based modules Offer field tested teacher friendly strategies for local school test development Can be used for individual or professional development opportunities Allow for sequential or non sequential use *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

Fuel your quest for knowledge with is thought-provoking masterpiece, Dive into the World of **Karin Hess And Depth Of Knowledge Matrix** . This educational ebook, conveniently sized in PDF (PDF Size: *), is a gateway to personal growth and intellectual stimulation. Immerse yourself in the enriching content curated to cater to every eager mind. Download now and embark on a learning journey that promises to expand your horizons. .

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Karin Hess And Depth Of Knowledge Matrix Introduction

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