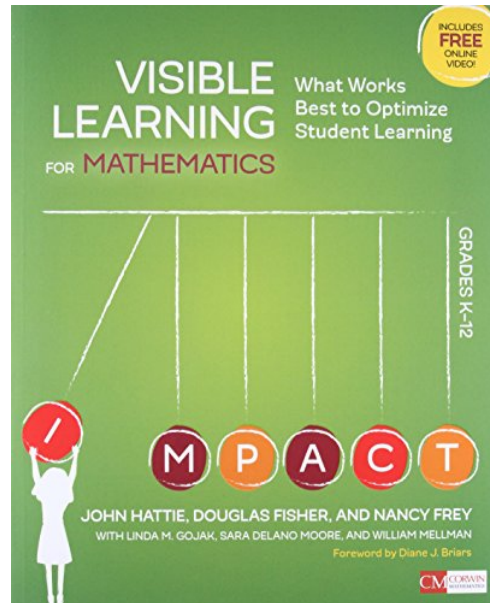# [Free PDF File] Visible Learning for Mathematics, Grades K-12: What Works Best to Optimize Student Learning (Corwin Mathematics Series)

Rich tasks, collaborative work, number talks, problem-based learning, direct instructionwith so many possible approaches, how do we know which ones work the best? InVisible Learning for Mathematics, six acclaimed educators assert its not about which one?its about when?and show you how to design high-impact instruction so all students demonstrate more than a years worth of mathematics learning for a year spent in school. Thats a high bar, but with the amazing K-12 framework here, you choose the right approach at the right time, depending upon where learners are within three phases of learning: surface, deep, and transfer. This results in "visible" learning because the effect is tangible. The framework is forged out of current research in mathematics combined with John Hatties synthesis of more than 15 years of education researchinvolving300 million students. Chapter by chapter, and equipped with video clips, planning tools, rubrics, and templates, you get the inside track on which instructional strategies to use at each phase of the learning cycle: Surface learning phase:When?through carefully constructed experiences?students explore new concepts and make connections to procedural skills and vocabulary that give shape to developing conceptual understandings. Deep learning phase:When?through the solving of rich high-cognitive tasks and rigorous discussion?students make connections among conceptual ideas, form mathematical generalizations, and apply and practice procedural skills with fluency. Transfer phase:When students can independently think through more complex mathematics, and can plan, investigate, and elaborate as they apply what they know to new mathematical situations. To equip students for higher-level mathematics learning, we have to be clear about where students are, where they need to go, and what it looks like when they get there.Visible Learning for Mathbrings about powerful, precision teaching for K-12 through intentionally designed guided, collaborative, and independent learning.

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