

Effective Instructional Strategies

What do you think are the most effective or high leverage instructional strategies - those that lead to student achievement/student learning?



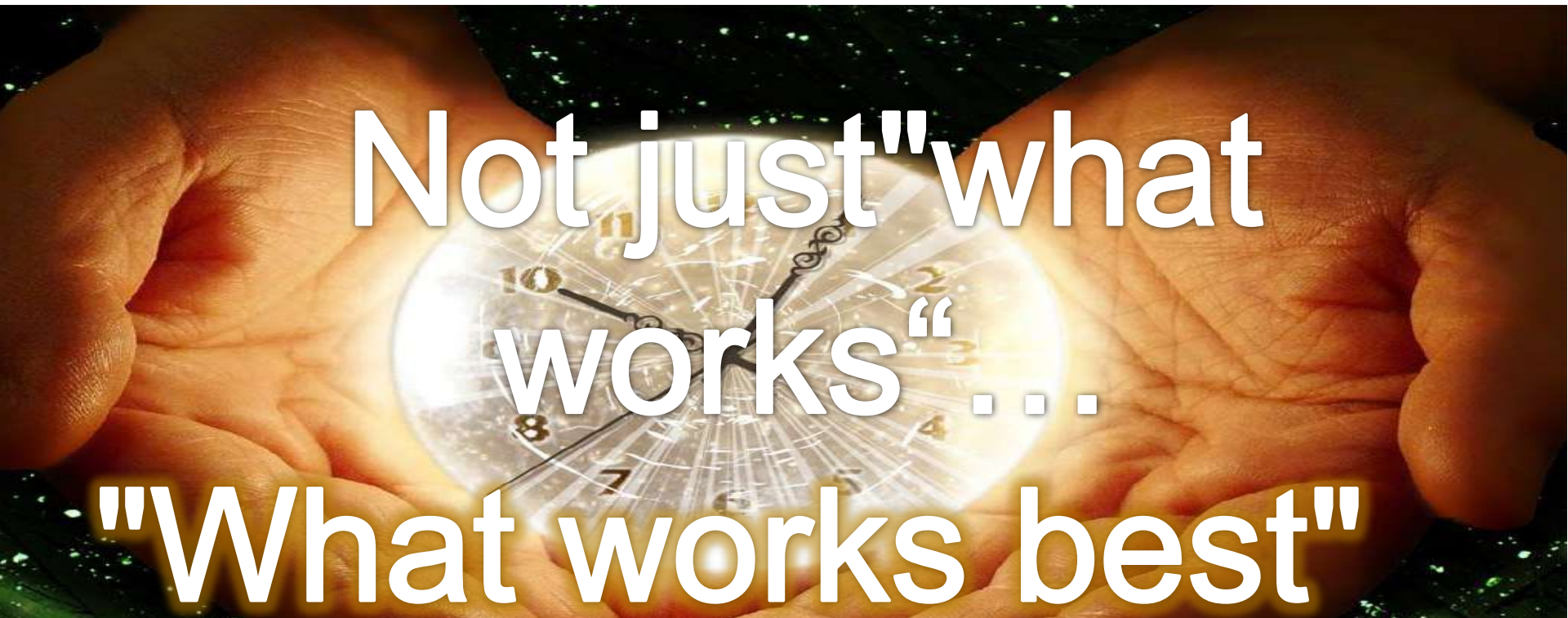
95% percent of what we
do instructionally has a
positive effect
on student
achievement/learning....

But, how positive???

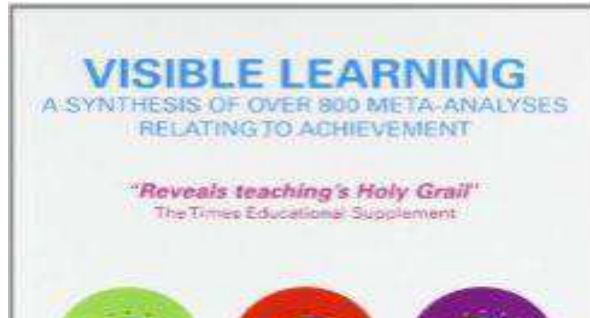


Time is Precious!!!

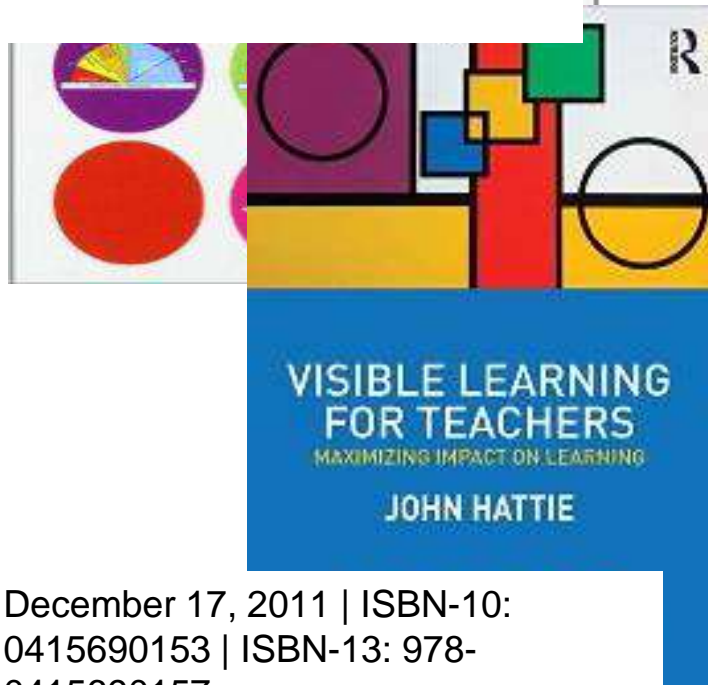
Identify the strategies that have the most leverage and focus on those.



“Visible Learning: A Synthesis of Over 800 Meta-Analyses Relating to Achievement” – John Hattie



December 26, 2008 | ISBN-10:
0415476186 | ISBN-13: 978-0415476188



December 17, 2011 | ISBN-10:
0415690153 | ISBN-13: 978-
0415690157

John Hattie:

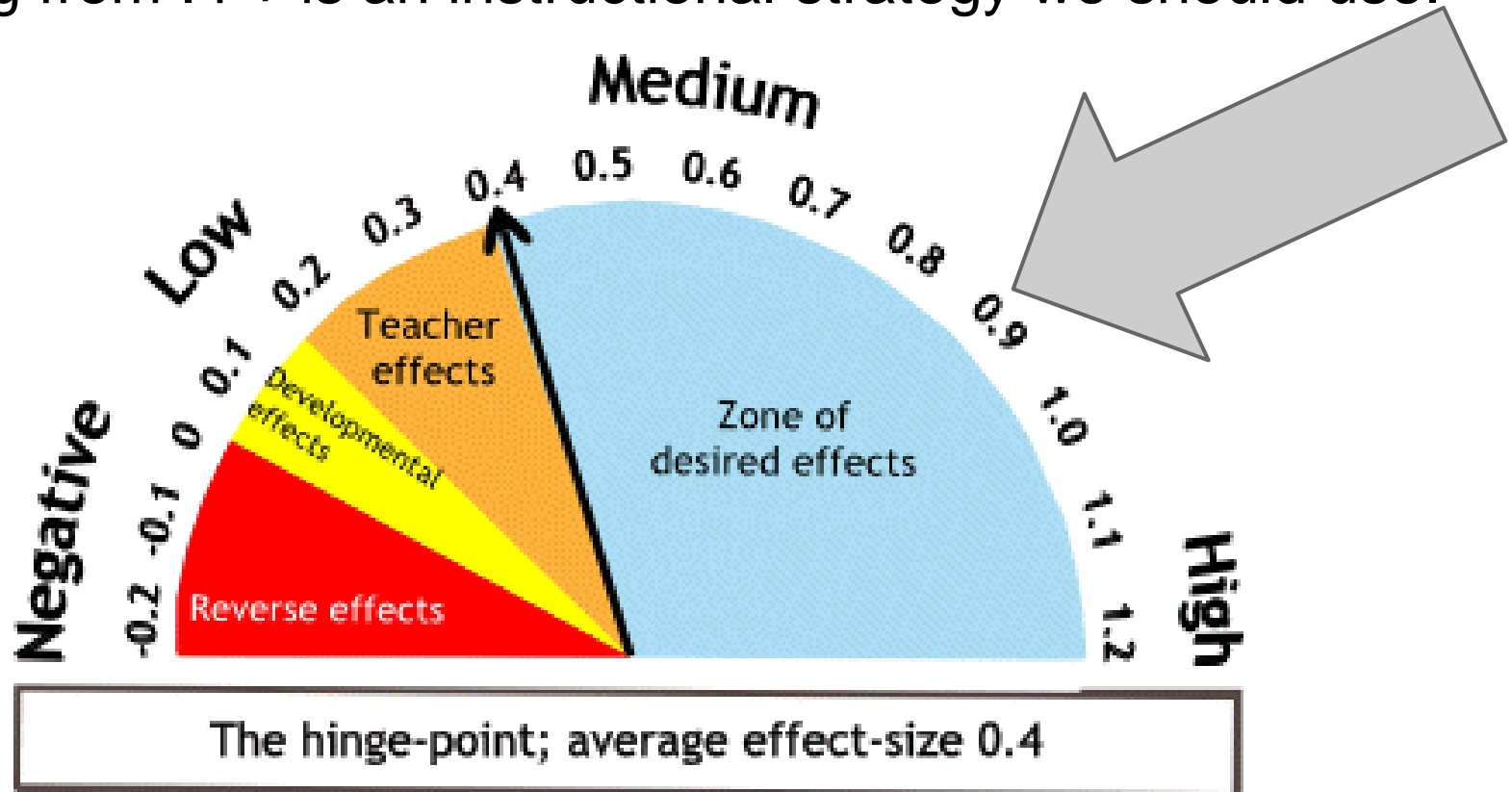
200,000 "effect sizes" **52,637**
studies involving more than
50 million students.

15 years of research

**The largest ever
collection of evidence-
based research into
what actually works in
schools to improve
learning.**

.4 is the "Hinge-Point"

An Effect Size of **1.0** or better is equivalent to advancing the student's achievement level by approximately a full grade. Anything from **.4 +** is an instructional strategy we should use.



Hattie's High-Leverage Strategies

Student Expectations: 1.44 (Students have high expectations for their learning and monitor their progress/achievements – use Rubrics and Excel)

Comprehensive Interventions - 1.07

-Computer Tutorials - .71

Formative Assessment - .90

Reciprocal Teaching - .74 (students learn and use cognitive strategies such as summarizing, questioning, clarifying, and predicting...students take role of teacher)

Effective Feedback - .73 (feedback is only really effective when it follows up effective instruction: it needs initial learning or surface information to build on – most important feedback is student to teacher to adjust instruction)

Peer Tutoring - .55

Cooperative Learning - .59 (has a prime effect on enhancing interest and problem solving provided it is set up with high levels of peer involvement)

Marzano's Essential Nine

Setting objectives and providing feedback - .61

Reinforcing effort and providing recognition - .80

Cooperative Learning - .73

Cue, Questions, and Advance Organizers - .59

Nonlinguistic Representations - .75

Summarizing and Note Taking - 1.00

Assigning Homework and providing practice - .77

Identifying similarities and differences - 1.61

Generating and testing hypotheses - .61



The Recipe for Success: Planning for Student Learning *with Technology* vs. Planning for Teaching *with Technology*

1. Have complete clarity about the Standard(s) (TEKS) you are teaching... (Hattie, Teacher clarity - .75)
"What must students know and be able to do?" – *Standards/TEKS*
"How will I know when they master it?" – *Assessment*
2. Choose high leverage learning strategies - the "biggest bang for the buck"
- 3 Then, choose technology tools, resources, apps that support those strategies and design student learning activities



Backward Design

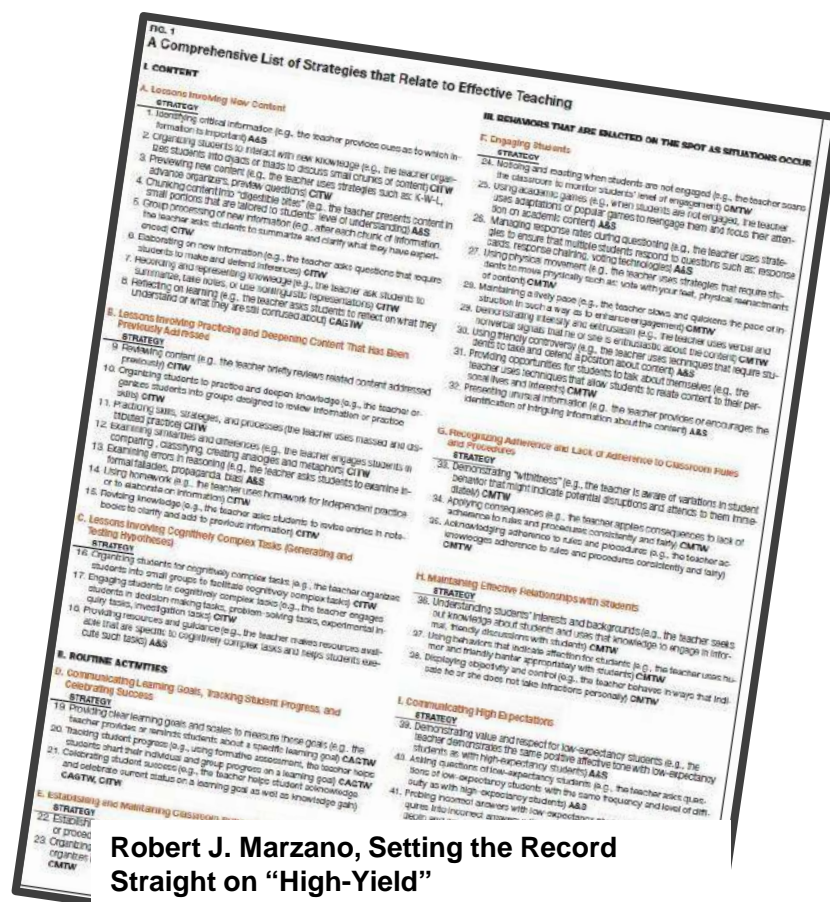
Most successful student learning and achievement

WHY?

**Why am I choosing this instructional strategy
or this digital resource?**

The ***Most Effective*** Strategies For Lessons Involving:

1. Learning new content
2. Practicing and Deepening Content That Has Been Previously Addressed
3. Lessons Involving Cognitively Complex Tasks (Generating and Testing Hypotheses)



Robert J. Marzano, Setting the Record Straight on "High-Yield" Strategies, *Phi Delta Kappan*, Vol. 91, No. 01, September 2009, pp. 30-37.

<http://www.marzanoresearch.com/documents/Marzano9-09.pdf>

Always Make the “WHY” Your Focus

Know your standard/TEKS (what do I want my students to know and be able to do)

Know and communicate to students the high expectations for their learning.

Know the instructional strategies that are high leverage.

Know which technologies support these strategies.

Plan for learning, not teaching.

The Challenge of Cooperation for Instructional Staff

- **EVERYONE** (*Teachers, School Librarians, Instructional Technology, Curriculum and Instruction*)

work to keep the focus on the Standards/TEKS, the most appropriate instructional strategies, and the technology that BEST supports ALL of these.