Assessment, Achievement and Accountability: An Exercise in ... What?

"If everyone is thinking the same thing, someone's not thinking!" George S. Patton, Jr., General, AUS

Abstract

Assessment, achievement and accountability go hand in hand. Assessment must be used to propagate change and improve student outcomes. Measurements of achievement judiciously applied provide direction to improve student outcomes. Accountability must come from within all tiers of academics, i.e., the "system", faculty, students, administrators and staff. Failure of one criterion guarantees failure of all three.

 Learning outcome: data must take the place of politics in driving academic change and improving student outcomes.

 Learning outcome: data must be made easily available to drive academic change and improve student outcomes.

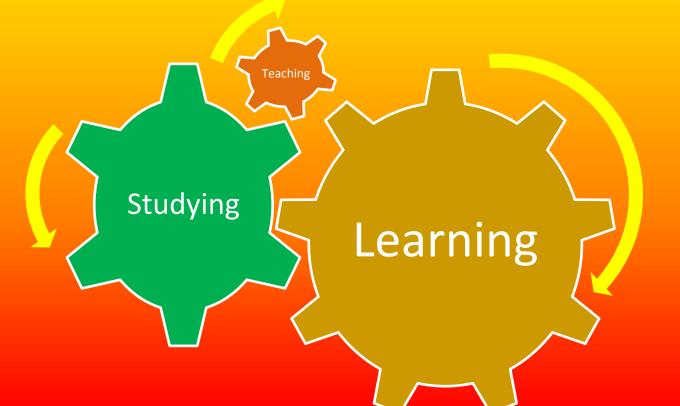
Franklin S. Carman III, AA, BA, PhD, Professor of Biophysical Sciences, WNC

Teaching: "[Professional activities] of sharing and explaining a body of knowledge with others."

http://www.thefreedictionary.com/teaching

Studying: "to apply one's mind purposefully to the acquisition of knowledge or understanding of a subject; the practice of reading or writing, [e.g.,] at night, especially by artificial light."

http://www.thefreedictionary.com/studying



Learning: "the cognitive process of acquiring skill or knowledge; the act of internalizing or studying a body of knowledge for purposes of expanding one's self and society and demonstrating that knowledge."

Assessment

Assessment is "a process of gathering and documenting information about the achievement and skills of an individual or group of individuals ... and using that evidence-based information (data) to improve and increase student achievement for and in future courses."

Achievement

Achievement is defined as "something completed or attained successfully"; students complete a course of study in such a manner, and at such a standard, that students are academically back grounded and prepared for their next course[s] or program[s] in their academic endeavors.

http://www.answers.com/topic/achievement

Accountability

Accountability is "the obligation to bear the consequences for failure to [achieve] as expected [or desired]."

http://www.answers.com/topic/accountability

Accountability

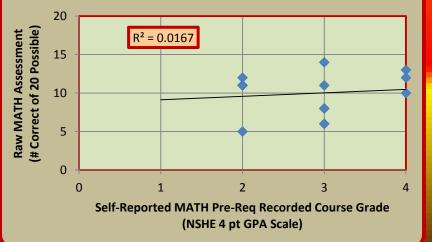
"The very notion that anyone might be opposed to teacher <u>accountability</u> is a stretch. But beware, for the phrase is not what it appears to be. In fact, in this age of urgency about standards, it <u>has become a code phrase for</u> <u>blaming teachers</u>. It means not just that teachers are supposed to be responsive to the needs of students or to provide high-quality instruction but that they must see that their students have high test scores [and course grades]—or else."

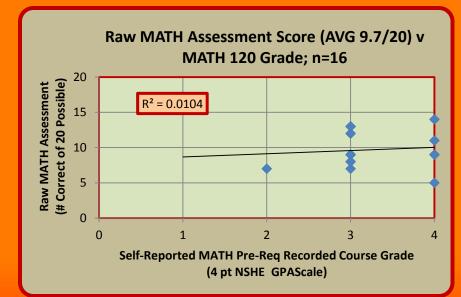
http://www.nctm.org/resources/content.aspx?id=7814 (National Council of Teachers of Mathematics)

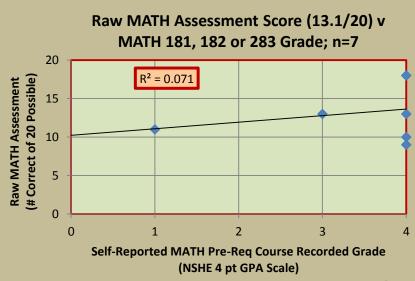
Case Study #1

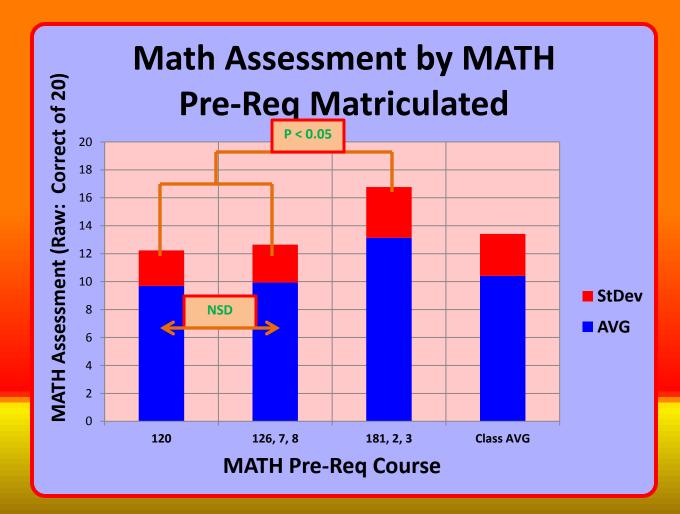
Raw MATH Assessment Score v MATH Pre-Req Grade -- AVG Correct = 10/20 20 # Correct of 20 Possible) **Raw MATH Assessment** $R^2 = 0.1141$ 15 10 5 0 1 2 3 0 Δ Self-Reported Recorded MATH Pre-Req Course Grade (NSHE 4 pt GPA Scale)

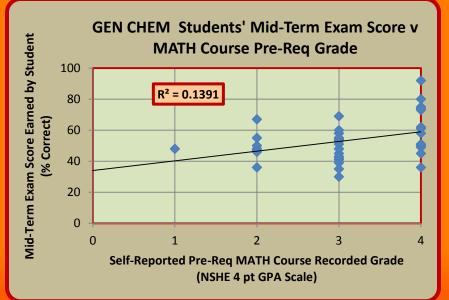
> Raw MATH Assessment Score (9.9/20) v MATH 126, 127 or 128 Grade; n=15



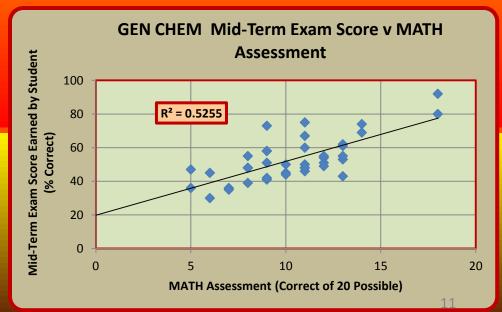


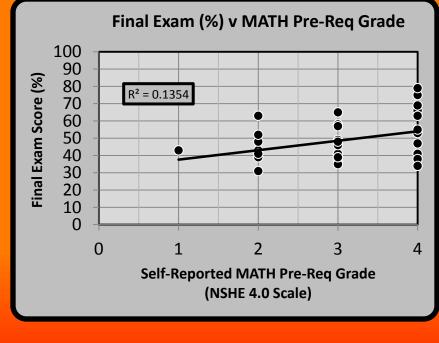






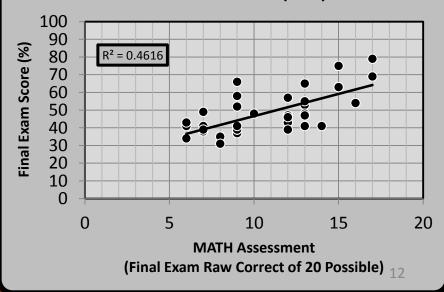
3.8 X Greater Relationship

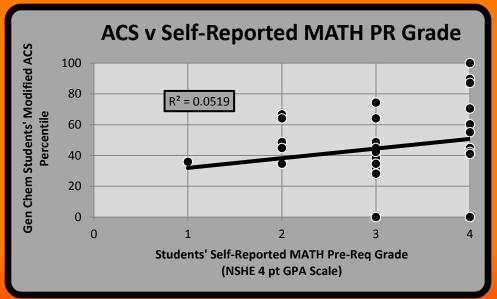




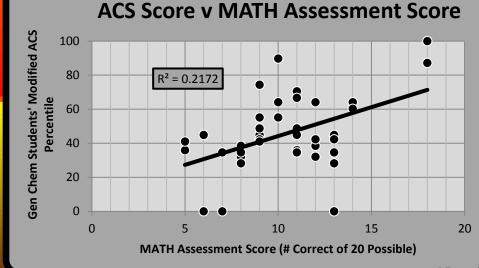
3.4 X Greater Relationship

Final Exam Score (%) v Final Exam MATH Assessment (Raw)

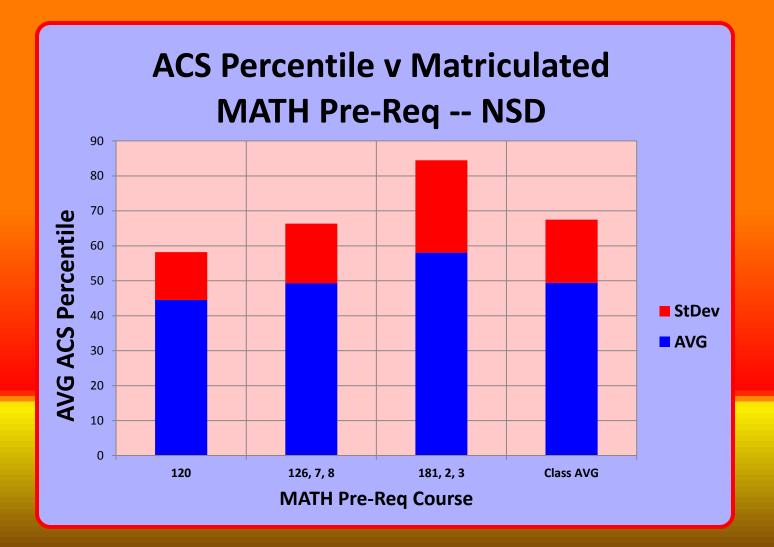


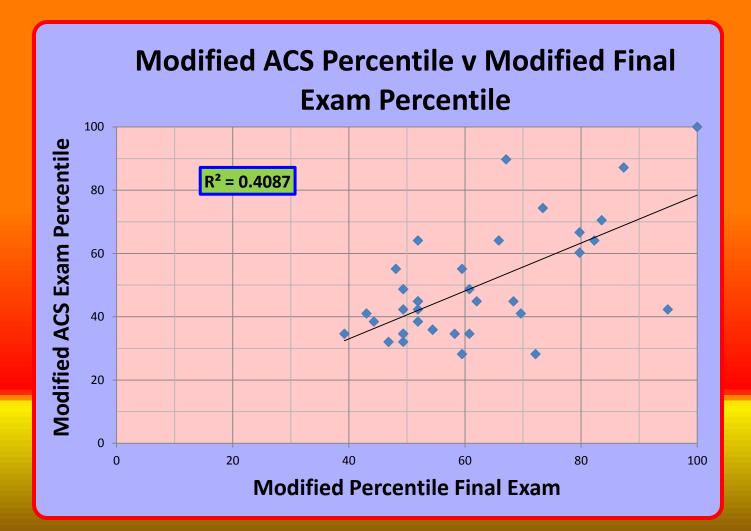


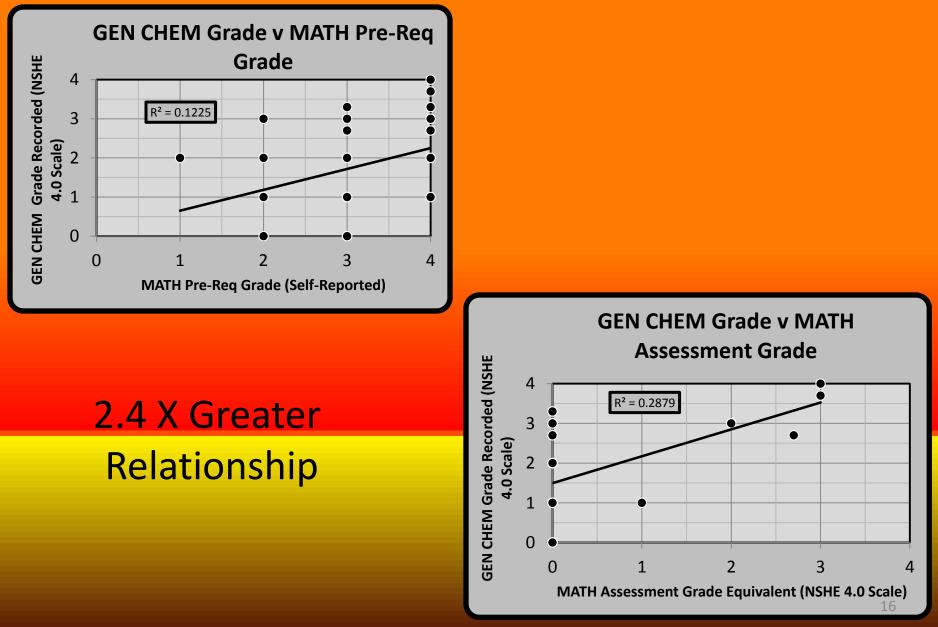
4.185 X Greater Relationship

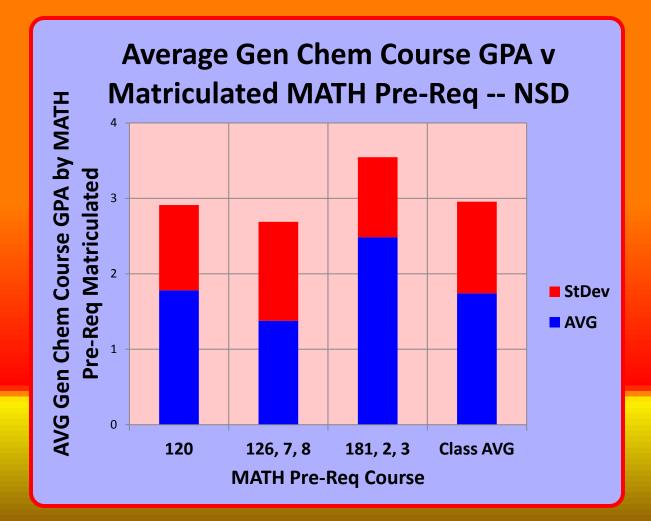


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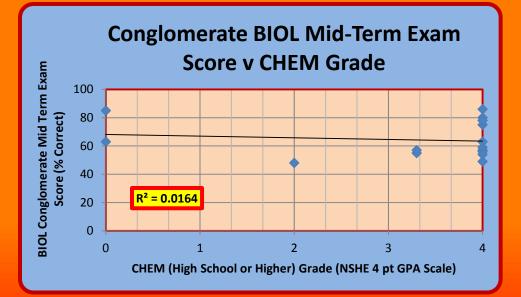
Group Participation Assessment – Complete?

Achievement – How Would YOU determine if Students Have Achieved?

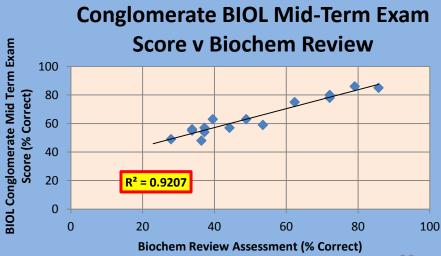
Accountability – How Would YOU Hold Students, Faculty, Administrators Accountable?

Case Study #2

Assessment: **BIOL**

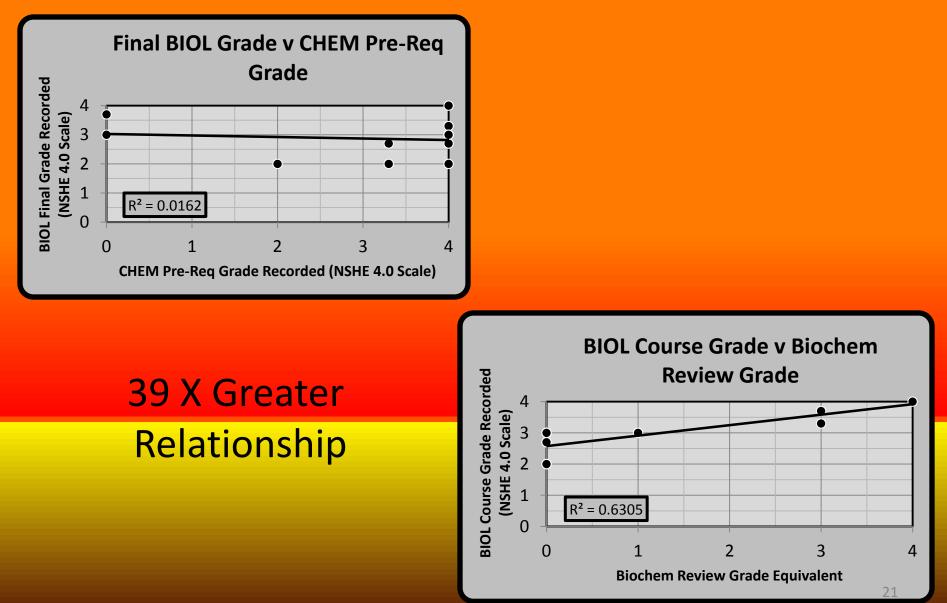


56 X Greater Relationship

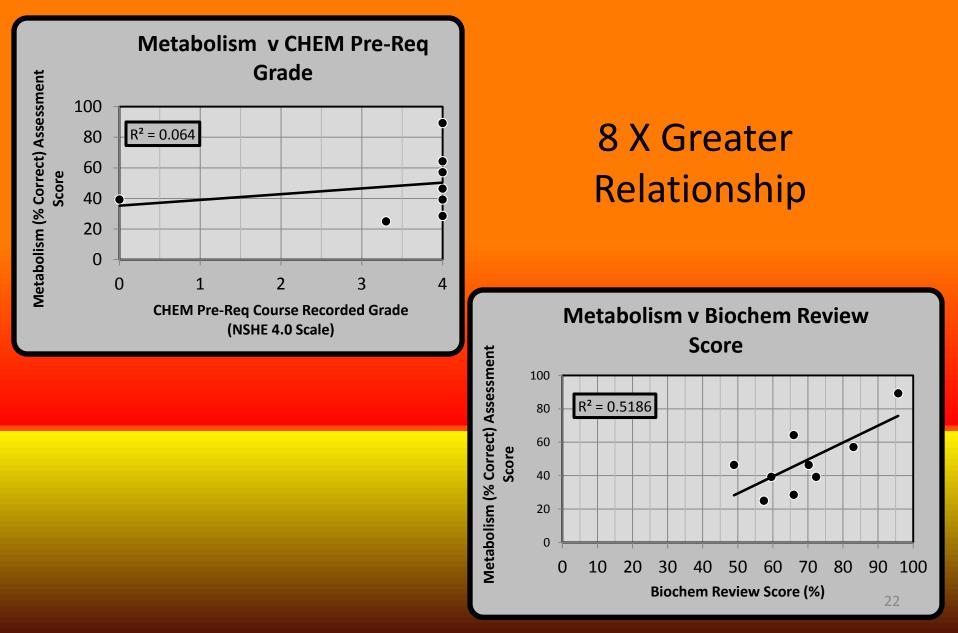


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Assessment: **BIOL**



Assessment: Metabolism



Group Participation Assessment – Complete?

Achievement – How Would YOU determine if Students Have Achieved?

Accountability – How Would YOU Hold Students, Faculty, Administrators Accountable?



What Would YOU Conclude?

Failure of one criterion guarantees failure of all three.

Thank You for Attending and Sharing!