

Students' Contributions and Teachers Response

A presentation based on Chapter 4, “The contributions from the student” of John Hattie's book, *Visible Learning: A Synthesis of Over 800 Meta-Analyses Relating to Achievement*(2009).

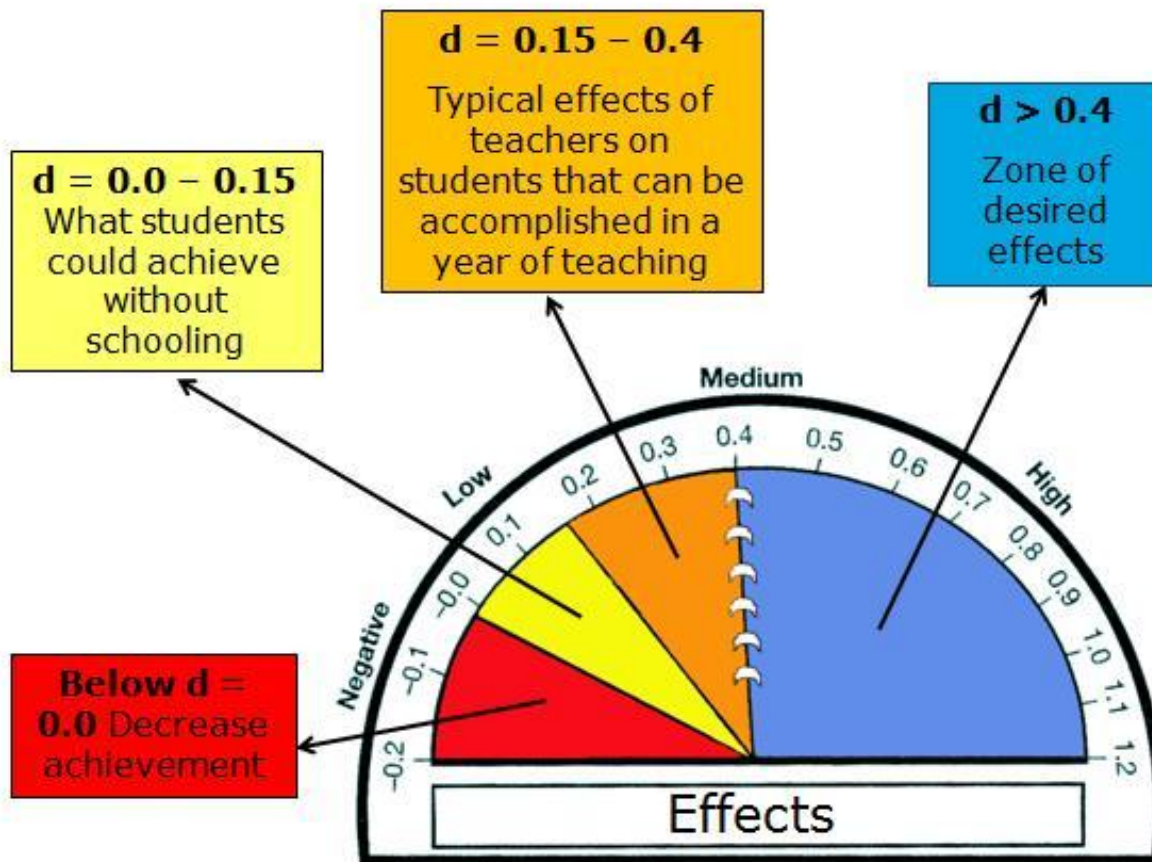
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4 Categories of Student Contributions

- Background Influences
- Attitudes and Dispositions
- Physical Influences
- Preschool Effects

Hattie's

Barometers of Influence



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Background influences

- Prior Achievement $d=0.67$ Zone of desired effects
- Self-reported grades $d=1.44$ Zone of desired effects
- Piagetian programs $d=1.28$ Zone of desired effects
- Creativity $d=0.35$ Teacher effects

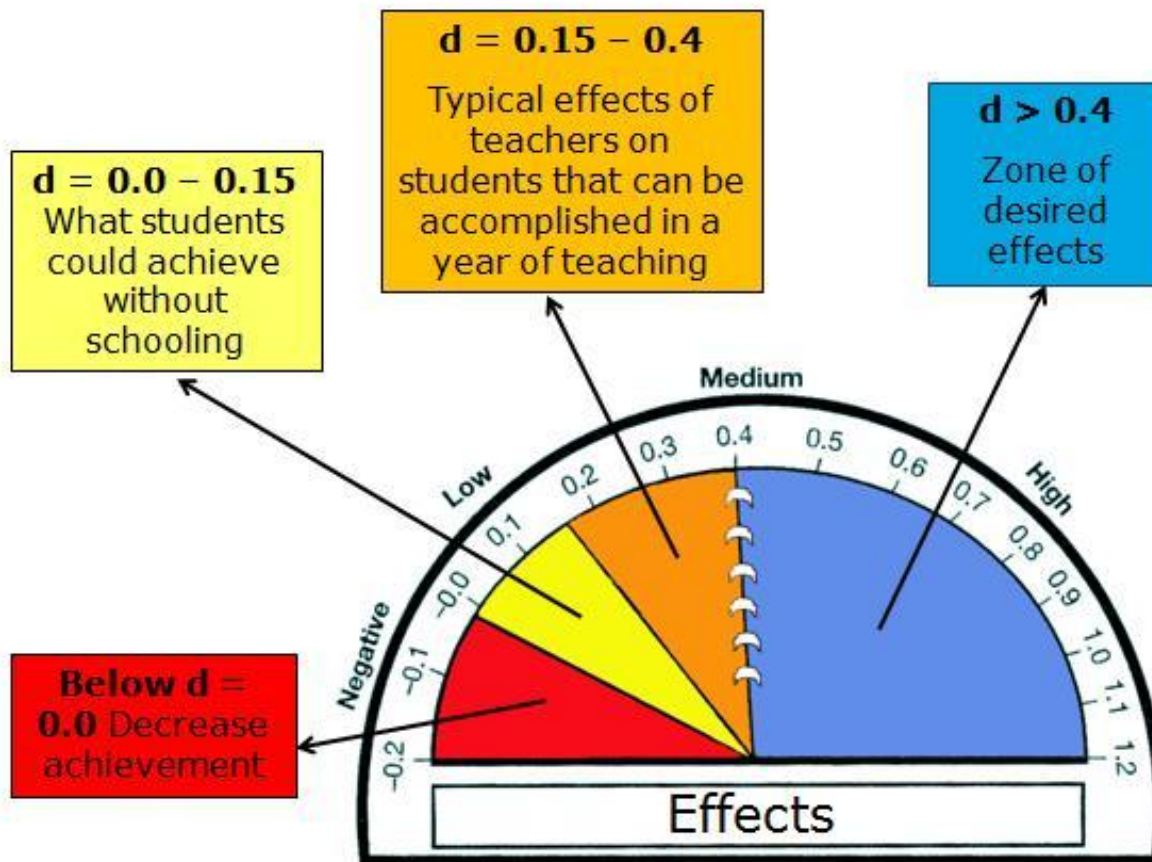
Effective teacher's response to the student's contributions from background influences

Effective teachers

- believe all students can learn and teach in a visible manner so that progress is clearly visible to both student and teacher;
- know their students what their students know;
- provide a safe place for students to meet challenging attainable goals.

Hattie's

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Attitudes and Dispositions

- Concentration, persistence engagement $d=0.35$

Zone of desired effects

- Reducing anxiety $d=0.40$ Zone of desired effects
- Attitude to math and science $d=0.36$ Zone of desired effects

(Hattie, 2009)

Attitudes and Dispositions

- Personality $d=0.19$ Teacher effects
- Self-concept $d=0.43$ Zone of desired effects
- Motivation $d=0.48$ of Zone of desired effects

(Hattie, 2009)

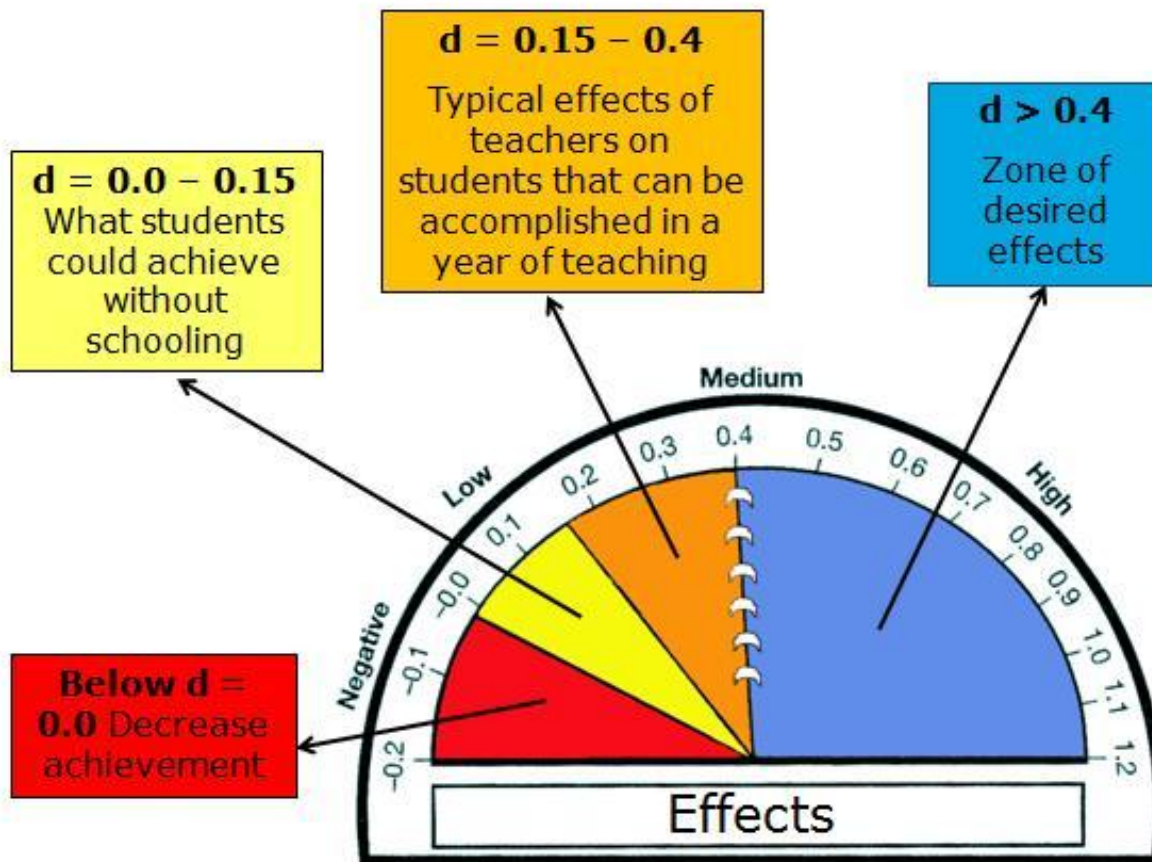
Effective teacher's response to the student's attitudes and dispositions

Effective teachers

- teach use direct explicit interactive instruction that engages students;
- know their students and what motivates them;
- modify their instructional practices according to feedback received.

Hattie's

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Physical Attributes

- Birth weight $d=0.67$ Zone of desired effects
- (Lack of) Illness $d=0.23$ Teacher effects
- Exercise and relaxation $d=0.28$ Teacher effects
- Drug interventions $d=0.33$ Teacher effects
- Gender $d=0.12$ Developmental effects
- Positive view of ethnicity $d=0.32$ Teacher effects

(Hattie, 2009)

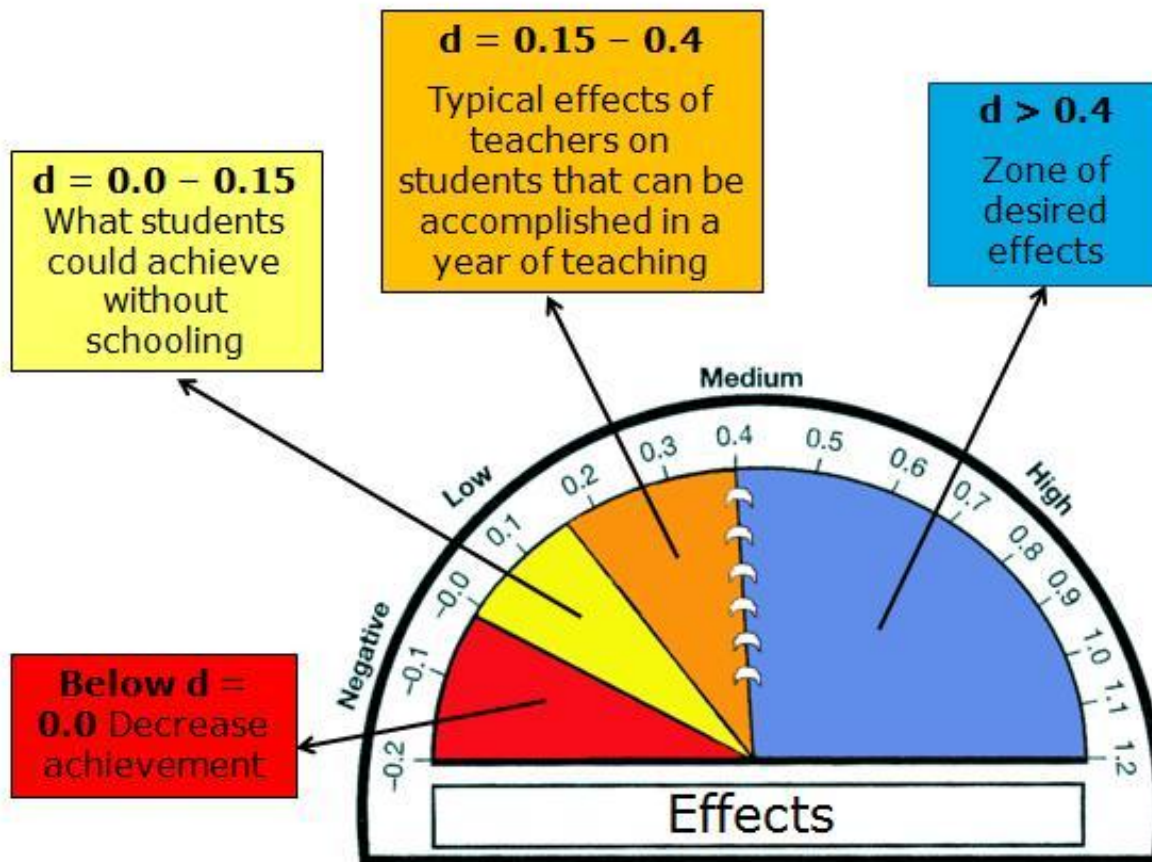
Effective teacher's response to the student's physical attributes

Effective teachers

- are aware of physical attributes, but approach each individual student with high expectations;
- consciously evaluate modify their instructional practices to honor diversity;
- reject stereotypes

Hattie's

Barometers of Influence



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Preschool Influences

- Early intervention $d=0.47$ Zone of desired effects
- Preschool programs $d=0.45$ Zone of desired effects

Effective teacher's response to the student's preschool influences

Effective teachers

- recognize students come to school with a variety of experiences;
- Hold high expectations for all students;
- Create a safe place for students to meet challenging attainable goals.

Concluding Comments

Effective Teachers

- believe all students can learn;
- hold high expectation for student progress;
- teach in a visible passionate manner that motivates and engages students in the learning environment;
- know their students;
- help students reach challenging attainable goals developed and modified from feedback;
- create a positive safe learning environment where students develop strategies for engaging deeply with learning material.

References

Hattie, J. (2009). *Visible learning: A synthesis of over 800 meta-analyses relating to achievement*. New York: Routledge.