THE EFFECT OF TEACHERS' USE OF DEVELOPMENTAL PROFILING TO GUIDE INSTRUCTION IN TWO AT-RISK SCHOOLS ON STUDENT ACHIEVEMENT AS MEASURED BY MAP ASSESSMENT: TOWARD A MODEL FOR PROFESSIONAL DEVELOPMENT

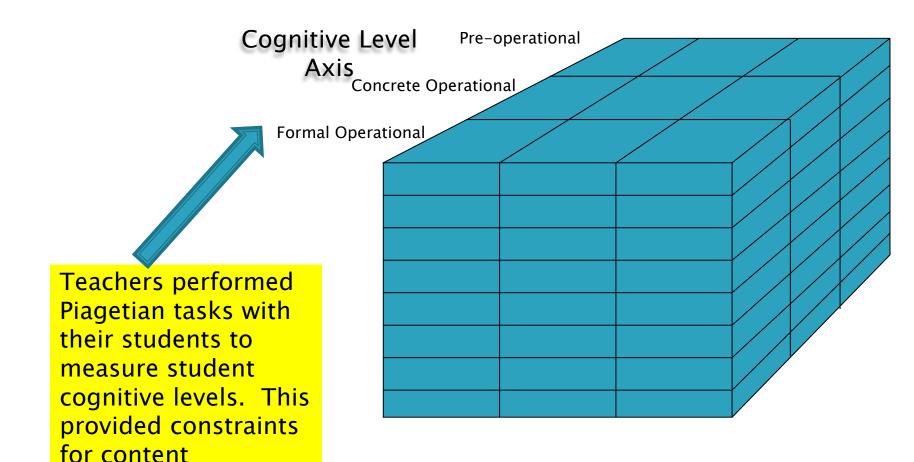
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One size does not fit all...

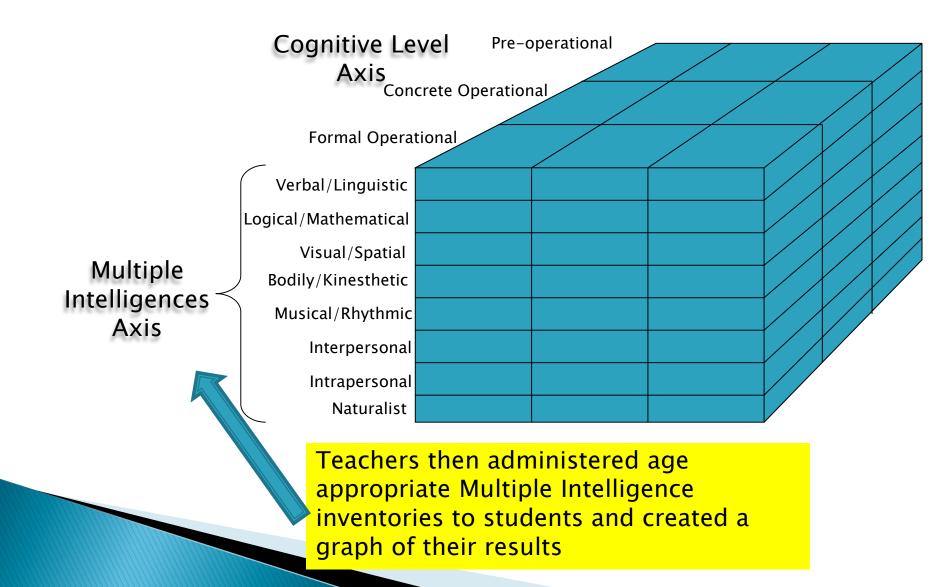
- Children differ from one another in several key ways
 - How they think and process information (Klahr & MacWhitney, 1998; Piaget, 1969, 1976)
 - How they prefer to receive information (Armstrong, 1993, 1994; Dunn, 1984; Gardner, 1983)
 - How and why they relate to one another and adults in the ways they do (Erikson, 1963, Kohlberg 1976)

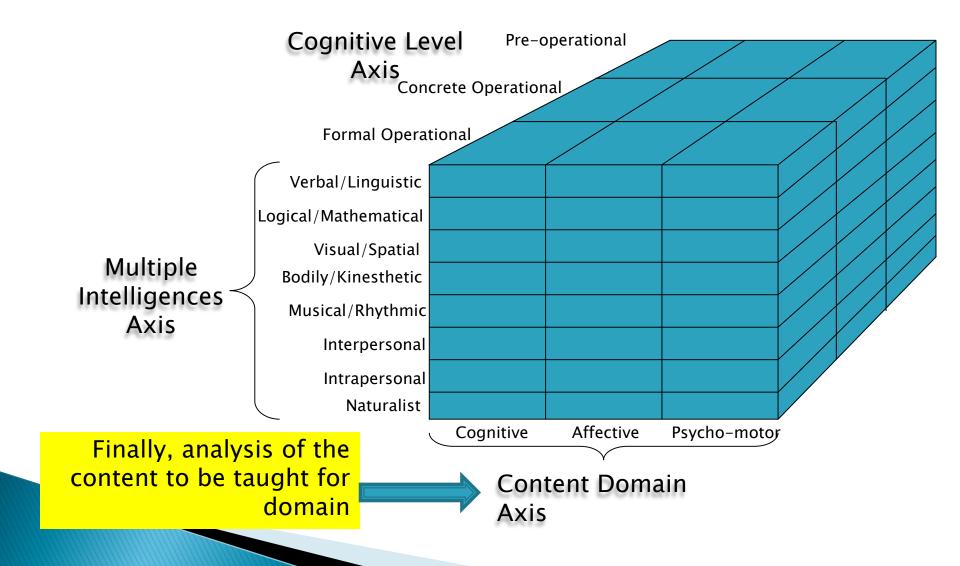
To be effective, teaching must be responsive

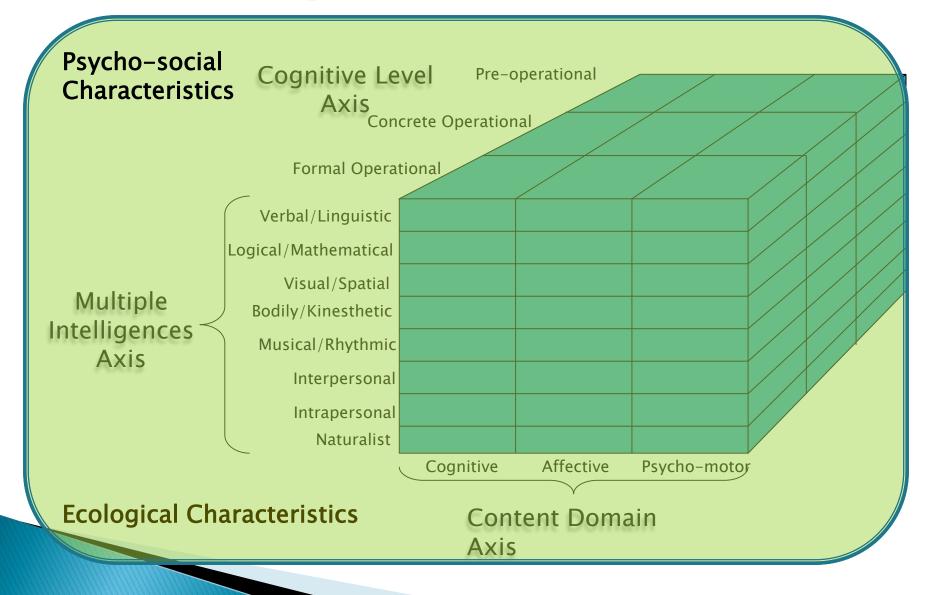
- Teachers are more effective when they respond to student uniqueness
 - Developmentally appropriate practice (Bredekamp, 1987)
 - Differentiation of instruction (Tomlinson, 2000)
 - Noting and responding to student differences is widely considered to be good teaching practice (Bain, Lintz, and Word, 1989; Brophy and Good, 1986; Corno and Snow, 1986; Dunn, 1984; Metcalf and Cruickshank, 1991; Slavin, 1994; Wang, Haertel and Walberg, 1993/1994)



presentation.







Achievement Increases from September 2008 to January 2009 for Grades 3-6 in Two Failing Schools in South Carolina (United States) as Measured by the Measures of Academic Progress Standardized Instrument

Expected / Actual Achievement Gains in RIT Scores				
Grade	Math	Reading	Language Usage	Percent Actual Gains are of Expected Gains by Grade Level
3	5.9 / 8.8	4.7 / 11	5.4 / 11	195.63% Smallest
4	3.6 / 9.4	3.6 / 10.9	3.9 / 8	256.34%
5	4.3 / 8.7	2.9 / 7.7	3.0 / 5.6	218.17%
6	3.1 / 4.6	2.2 / 5.4	2.3 / 5	203.74%

RIT Scores – Scores derived from Rauschian Item Response Theory demonstrating absolute difficulty of items correctly completed.

Percent Actual Gains are expressed in aggregate over all three content tests by grade level.

A model for professional development

of teachers

Student

Characterized by

Multiple Intelligences profile

Cognitive Developmental level

Ecological backdrop

Psychosocial level

First, teachers learn how to diagnose their students according to the listed theoretical constructs and consider instructional implications

Teacher's Role

Diagnose students
(individually and as a class) and ensure reasonable implementation of implications from these variables to produce

Curriculum

Typically driven by Standards which dictate

Domain for Instruction (Cognitive, Affective, Psychomotor)

Bloom's Taxonomic Level
(Knowledge, Comprehension,
Application, Analysis,
Synthesis/Evaluation)

Classroom Instruction that is Student Centered, Developmentally Responsive, Achievement Oriented A model for professional development

Student

Characterized by

of teachers Second, teachers learn how to critically analyze their curriculum identifying domains, taxonomic levels, and instructional implications

Curriculum

Typically driven by Standards which dictate

Multiple Intelligences profile

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Psychosocial level

Teacher's Role

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Classroom Instruction that is Student Centered. Developmentally Responsive, **Achievement Oriented**

Summary

- Effective teaching yields observable achievement-related results
- Among the many constraints upon teachers, selection and implementation of instructional strategies stand out as viable options
- Implementation of instruction based upon understanding of students' preferences has resulted in increased achievement on the Measures of Academic Progress assessment.
- One route to effective teaching is for teachers to engage in professional development that scaffolds diagnostic and prescriptive skills necessary to understand students and implement instruction that is student centered, developmentally responsive, and achievement oriented.