

Study of Deeper Learning: Opportunities and Outcomes

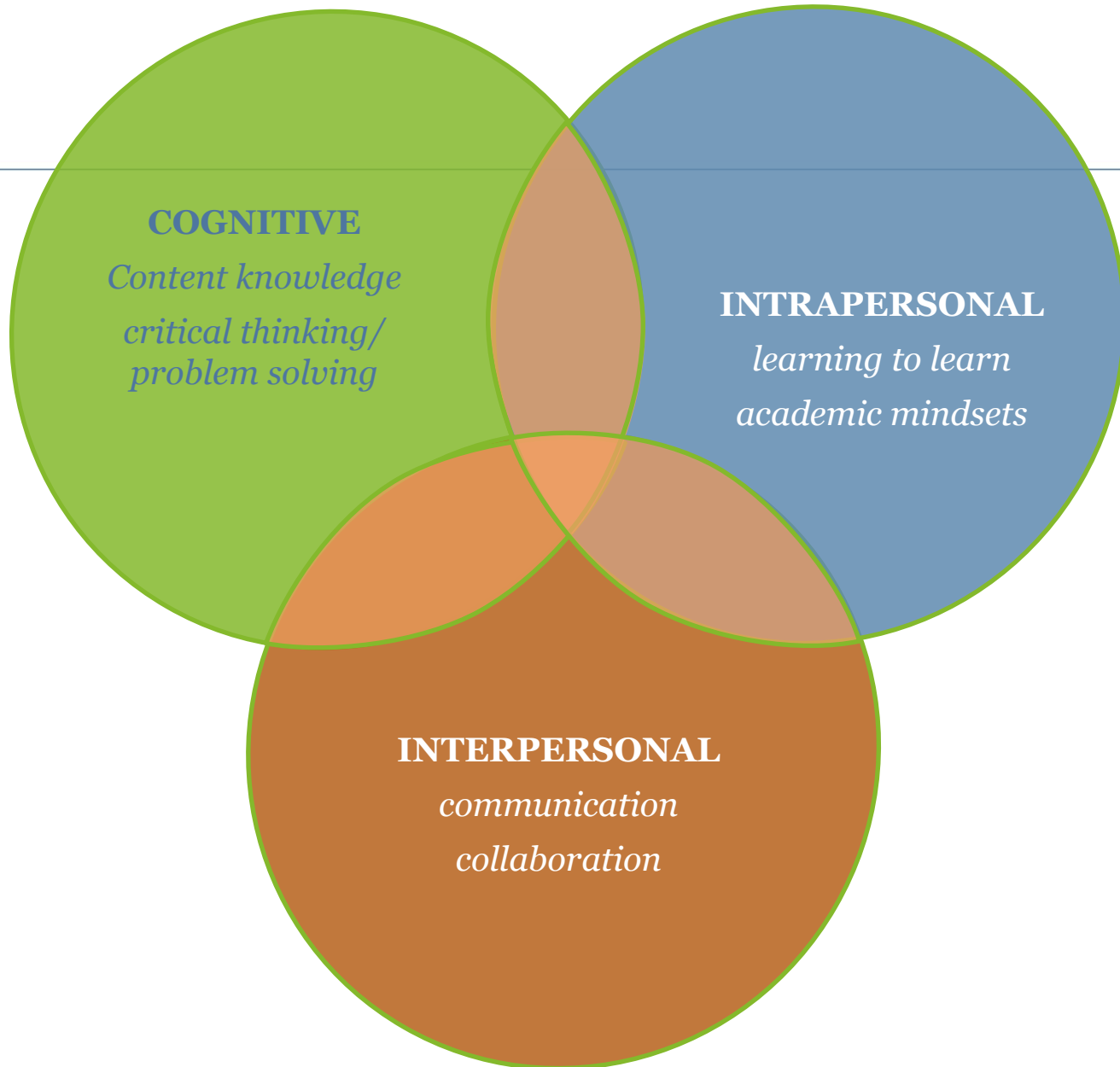
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*American Institutes for
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Domains of Deeper Learning Competencies



Assumptions Underlying the Deeper Learning Initiative



Design for Test of Concept

1. Examples of the concept:

- At least moderate implementers of DL network models
- Serve high proportions of traditionally underserved students
- Non-selective, whole school

2. Comparison:

- What would have happened had the students not attended DL network schools?
- Schools serving similar student pop; same jurisdiction and other criteria
- Students matched for incoming achievement, characteristics

Design

3. Cohort Model

- To capture HS and post-HS experiences/outcomes?
- 5 successive cohorts of students – defined by entry into G9
- Combination of extant and new data collection

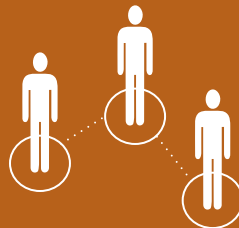
4. Outcomes across each domain

- Cognitive: PISA-based Test for Schools (deep content and problem-solving – R, M, S)
State HS Graduation tests (CAHSEE, NY Regents)
- Inter- & Intra-personal Competencies: validated student surveys
- HS Graduation
- Post-secondary matriculation and persistence (NSC)

Findings in a Nutshell



**Better Assessment
Scores**



**Stronger Intrapersonal
and Interpersonal Skills**



**Higher On-Time
Graduation Rates**



**More Likely to Attend
4-Year Colleges**



**Equitable Opportunities
and Outcomes**

Report 1: School Approaches



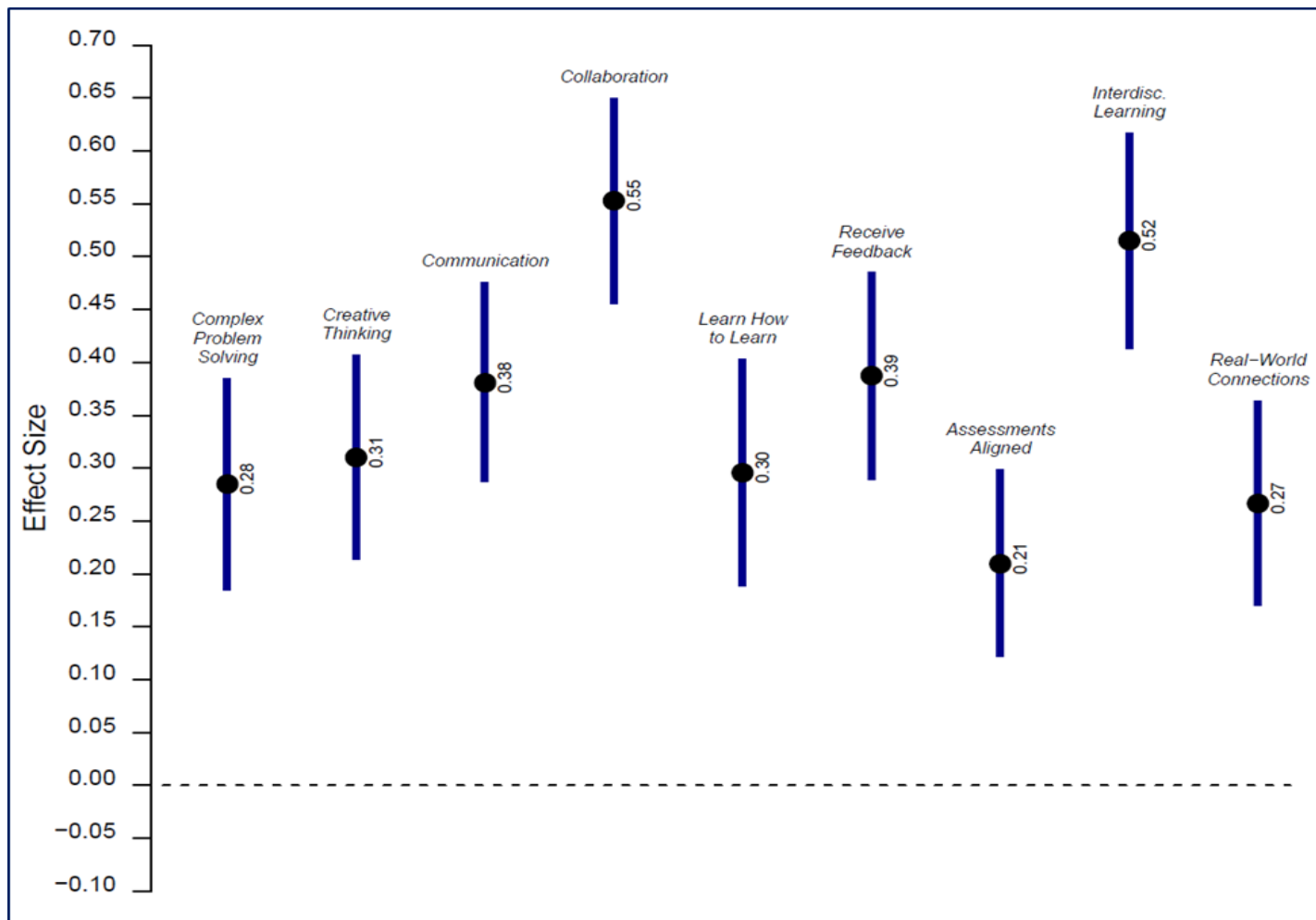
School Approaches to Promote Deeper Learning Competencies in Network Schools

- Variation in approach across network schools
- Most common strategies and structures:
 - project-based learning
 - internship opportunities
 - collaborative group work
 - longer-term cumulative assessments
 - advisory classes and alternative scheduling structures
- These strategies and structures were reported to a greater extent in network schools than non-network schools

Report 2: Opportunities



Estimated Average Effect of Attending a Network School on Students' Opportunities for Deeper Learning



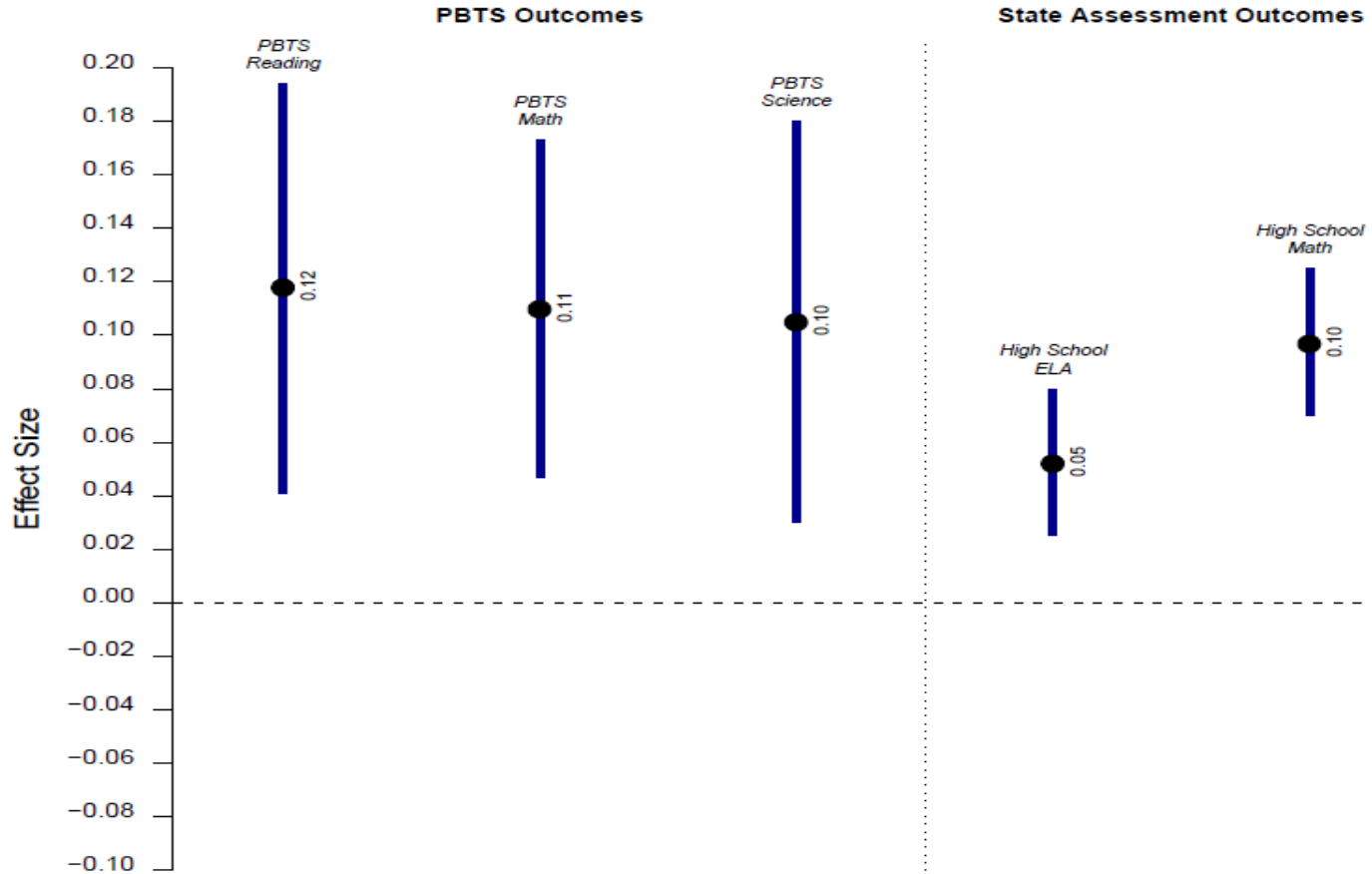
Report 3: Student Outcomes



Outcomes

- Graduation: Students attending network schools **had 9% higher rates of on-time graduation** compared to similar non-network students.
- Post-secondary Attainment:
 - More likely to attend 4-year colleges; selective institutions
 - Similarly likely to go on to some kind of post-secondary
 - Positive effect on initially low-achievers (greater benefit from DL)
- Achievement: **higher scores on PBTS *and* high school achievement test scores**

Cognitive Skill Development: Results



Interpersonal and Intrapersonal Competencies: Results

- Students in network schools **had higher levels of**
 - collaboration skills,
 - academic engagement,
 - motivation to learn, and
 - self-efficacy
- Measures of self-management, creative thinking skills, perseverance, and locus of control did not differ between network and non-network students

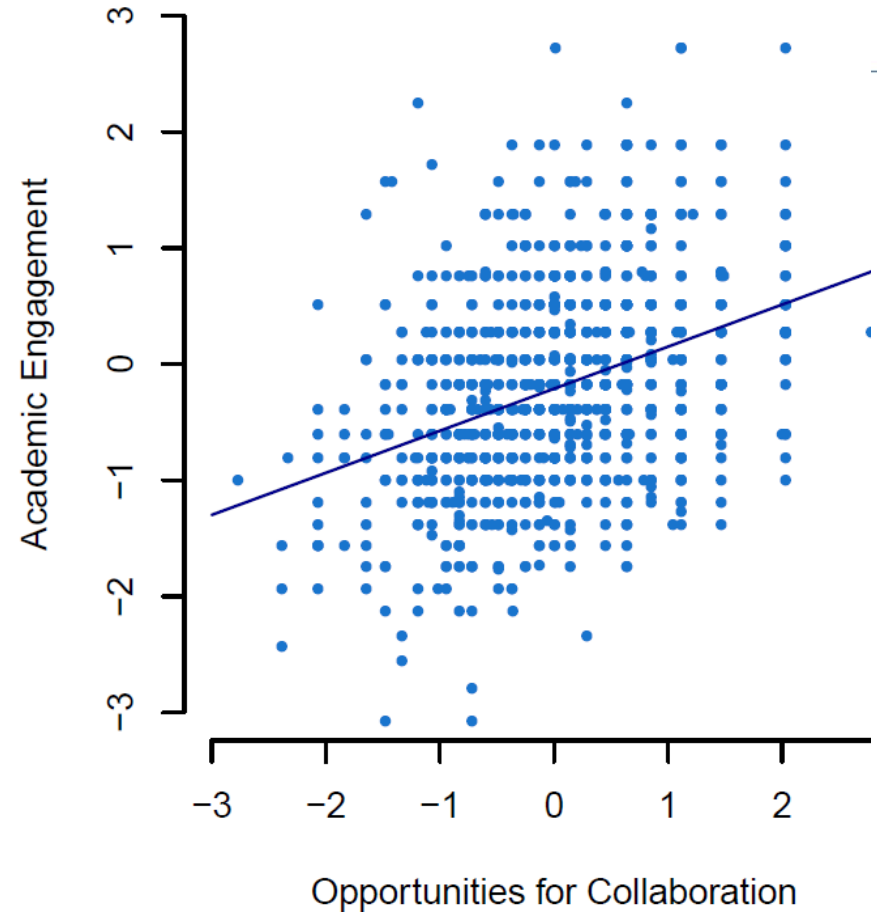
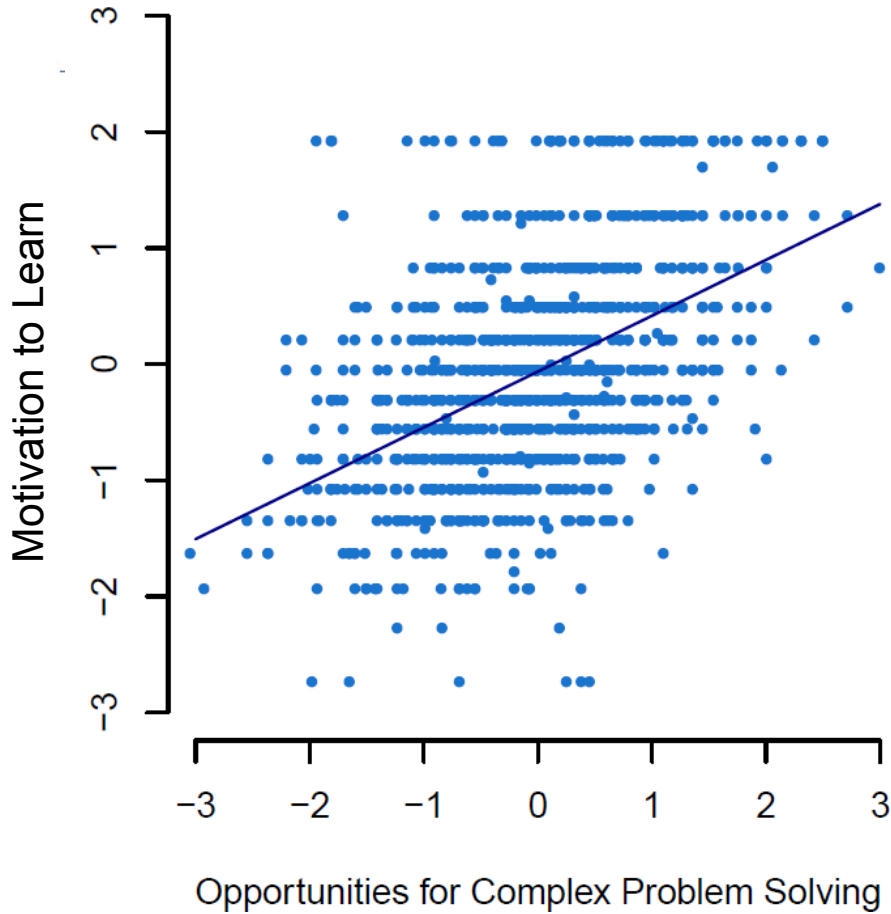
Similar Effects on Low and High Achievers

- Effects did not differ between students entering Grade 9 with below-average or above-average test scores for most outcomes
- Exception: greater benefit on post-secondary enrollment for initially low achievers.

Conclusion

- Overall evidence to support concept and assumptions underlying deeper learning initiative.
- Confidence in findings:
 - Based on robust quasi-experimental design, checks and cross-checks
 - Consistency of findings
 - Connection between DL opportunities and outcomes holds at both the school and individual student level

Opportunities and Outcomes for Individual Students



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