

Reverse Engineering Teachers

Donna Kotsopoulos | September 28, 2013



In education, education should matter.

Quality of the teaching is the most influential in-school factor for student success. LAURIE



Who is teaching our children mathematics? Who is leading the mathematics strategies at boards and at the ministry? Are these individuals with disciplinary preparation in mathematics and in mathematics education?



Mathematics teachable (JI) 8% Mathematics teachable (IS) 16%

Source: OCT, 2012 Data, www.oct.ca



Additional qualifications < 2%

Last year 3%

Source: OCT, 2012 Data, www.oct.ca



Passion and experience ("time in") is not enough;

Current PD models and ministry initiatives aimed at reserve engineering are showing through provincial results to be ineffective.

Recommendations

Teacher-level funding for upgrading (rather than PD)



Mathematics as a protected subject in the Education Act

Reverse Engineering Strategy Minor in mathematics for teaching

Research-based (rather than ideology-based) provincial strategic plan for mathematics education

Credential-based leadership and staffing strategies



In education, education MUST matter.

The mathematics education of the teacher MUST matter in order for it to have an impact on student success.



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