

TDSB Digital Lead Learners System-Wide Change Agents Promoting Global Competencies and Deep Learning Across the Board

Background

In the 2015-16 and 2016-17 school years, the Toronto District School Board conducted a study with Digital Lead Learners (DLLs) and STEM DLLs to better learn how to support the learning and growth of DLLs.



Impact of PD

On STEM DLLs and STEM pedagogy



Needed Support

For DLLs and STEM DLLs



Challenges

Experienced by DLLs and STEM DLLs

Methodology

STEM DLLs completed a pre-survey, attended professional development, and completed a post-survey. DLLs completed a post-survey only.



Pre-Survey

STEM DLLs completed pre-survey



PD

STEM DLLs attended professional development



Post-Survey

STEM DLLs and DLLs completed post-survey

Guide to Key **DLL** Study Findings

Key STEM DLL Findings



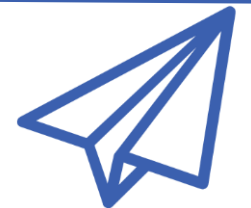
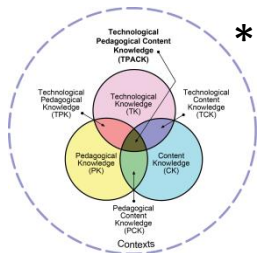
41% INCREASE
in teacher understanding of
STEM after attending PD

34% INCREASE
in knowledge of STEM
pedagogy after attending PD

34% INCREASE
in student learning after
attending PD

30% INCREASE
in teaching efficacy after
attending PD

Key DLL Findings



69%
agreed or strongly agreed there
is unequal access of technology

MORE TECH
DLLs need more hardware and
software

CONTINUE DLL
DLLs would like the program
to continue

96%
agreed or strongly agreed to
have TPACK knowledge

Source: Sinay, E., Alam, R., & Nahornick, A. (2018). *Fostering global competencies and deeper learning with digital technologies research series: TDSB digital lead learners as system-wide change agents promoting global competencies and deep learning across the Board* (Research Report No. 17/18-13). Toronto, Ontario, Canada: Toronto District School Board.