ttroduction Research Strategy Results Conclusion

How an Innovative Self-Learning Program Improved Primary Eduation Results in Bangladesh?

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with Minhaj Mahmud, Mai Seki, An Le, and Hikaru Kawarazaki ADB Knowledge Forum November 6, 2018

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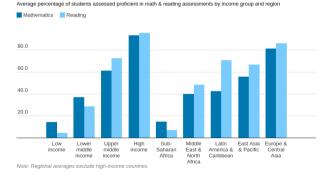
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Motivation

"Global learning crisis" (UNESCO 2013, WDR 2018)

MDGs: Impressive progress in the primary completion rate. SDGs: Inclusive and quality education for all.

Where are Primary School Students Passing Learning Assessments?



Source: World Development Report 2018 using "A Global Data Set on Education Quality" by Altinok, Angrist, and Patrinos 2017

Research Question

What happens to learning if we introduce one of globally successful non-formal education methods KUMON Method of Learning to disadvantaged schools BRAC primary schools (BPS) in very low income communities?

Kumon

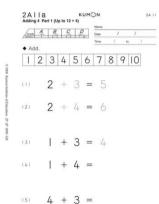
Diagnosis test (DT) at the very begining to identify ability level.

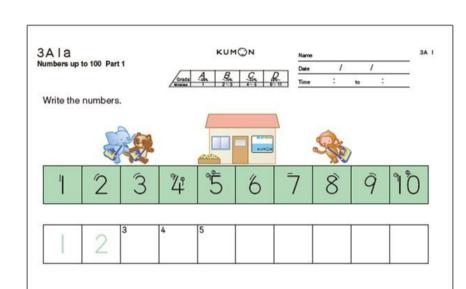
Self-learning at the right level, in small-steps with hints.



↑ A Kumon center in India

An example of a worksheet \rightarrow





3A 71

3A7Ia KUMON Adding 1 Part 1 (Up to 12 + 1)

Date	1		1	
Time			:	

Write the number that comes next.

$$\longrightarrow \boxed{2}$$

$$2 \longrightarrow$$

$$4 \longrightarrow$$



Write the number that comes next.

$$2 \longrightarrow$$

$$2 + 1 = 3$$

Two plus one equals three.

Four plus one equals

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BRAC Primary School



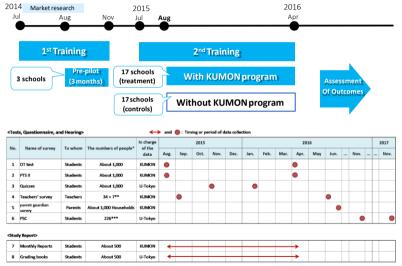
. ↑ BEP uses National Curriculum and Textbook Board (NCTB) textbooks

A BPS in Bangladesh during a Kumon session →



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RCT-Based Study Timeline

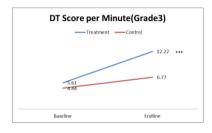


^{*}For 1-6, the number includes people in the control group.

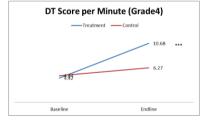
**Some teachers were replaced at the time of endline.

^{***}Excluding the number of samples planned to collect in 2017.

Results on Cognitive Outcomes



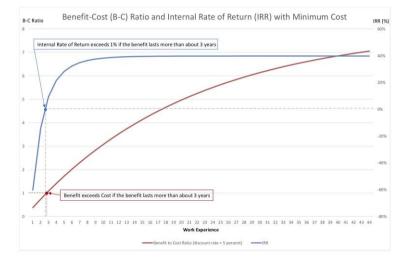






Comparing Benefit and Cost

Benefit-Cost (B-C) Ratio and Internal Rate of Return (IRR) with Minimum Cost



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Remarks

Overall impacts:

Robust and better learning ability.

Benefit exceeds cost if the effect continues more than 3-10 years.

Teachers' better assessment capacities of students' performance.

PPP useful for SDGs:

Complementary to lecture-style education in solving learning crisis

Market-tested programs will be effective even in social sectors