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# What about tutoring to support students?

**Cathia Papi**

Full Professor, Department of education, TÉLUQ University



# A key measure in a peculiar context





# Tutoring in Quebec

- Education is a provincial responsibility
- 72 school boards in Quebec
- Ministry of Education's investment:
  - \$21 million in 2021
  - \$63.86 million (\$103,210 per school board) in 2022–2023

**How schools adopted this measure,  
what mechanisms they  
implemented and how it affected  
learning outcomes?**

# Effectiveness of tutoring linked to different criteria



- Tutors' (socioprofessionnal) activity: an adult trained and paid.
- Students tutored simultaneously: no more than four or three students per group.
- Relationship : supportive relationship, personalised support
- Frequency of tutoring sessions: at least three times a week
- Time and location : greater impact during school hours

## ➤ Tutoring :

personalised support, offered by public institutions, provided individually or in small groups, at regular intervals over several consecutive weeks.



# Methodology

The government encouraged schools to introduce tutoring, without specifying exactly what was meant or expected.

## Case studies

34 semi-structured interviews in fall 2021 and 2022:

- 23 school headteachers
- 11 school boards directors
- Case-by-case analysis
- Thematical analysis

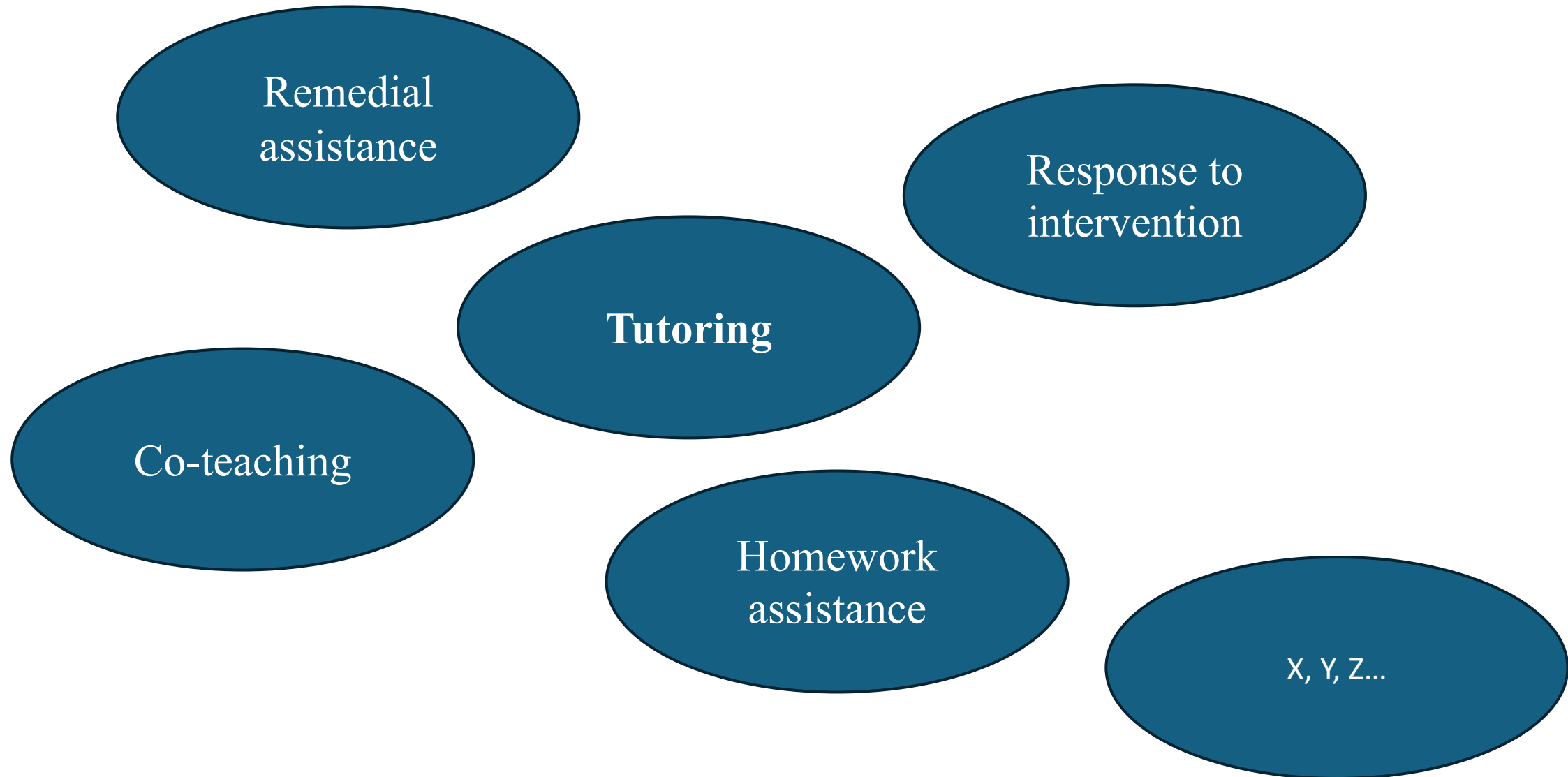
## Survey

Questionnaire-based survey across Quebec in spring 2023

Representative sample: 309 school headteachers

- closed-ended questions: frequency distribution and cross-tabulation tables
- open-ended questions: thematical analysis

# Tutoring results in Quebec





# A broad range of designs

Tutoring:

*‘It’s an activity that mobilises a support person and a person receiving support, with the aim of achieving a given objective, either a learning objective or a behavioural development objective that is related to the development of a skill or attitude.’ (P10)*

An alternative to remedial teaching or other programmes:

*‘This support means that some students don’t need to see a resource teacher after all, and that difficulties are resolved.’ (P2)*

- The people involved made little distinction between tutoring and the support programmes that already existed in schools before the pandemic



# A broad range of characteristics

<b>Tutors</b>	Mostly teachers, some special educators, a really few others (students, psychologists...)
<b>Tutees</b>	Group of 1-4 : 60%
<b>Relationship</b>	Sometimes pre-existing
<b>Frequency</b>	At least 3 sessions/week: 32% (generally between 30 to 60 min/session)
<b>Time and location</b>	During the class: 66%, at school (less than 2% online)





# A wide range of positive effects...

- Increase in students' self-confidence and self-esteem:

*'Increased confidence and self-esteem, because we consolidate the "foundation."' (S9)*

- Increase in students' level of motivation, commitment and perseverance:

*'They are more engaged—children understand, they arrive with a smile, they have a sense of competence, get better grades, have better methods, and are more autonomous in class.' (P9)*

- Improved academic results:

*'Tutoring enables us to help certain students be better organised and to review basic knowledge. We've already seen an increase in academic results.' (P7)*



# But not uniform in nature or intensity

- Nuances must be taken into account:

*'For some students, the assistance measures are very successful. For others, whose problems are more firmly established, the results are much less obvious. We find that the sooner we can help young people, the better the results.'* (P9)

- Lack of available staff and of children's capacity to engage in additional school activities:

*'It's not possible to tutor every student due to the staff shortage and to the children's level of fatigue. Those who have given all they can during the day are too tired after class.'* (P5)



# Discussion

- It would have been good to share high-dosage tutoring criteria and to take into account existing programmes.
- Staff availability (and cost) proved to be a crucial issue : solutions?
  - lower dosage tutoring ?
  - other tutors (like students)?
- Should tutoring stays implemented or finished in a few years?



Cathia  
**PAPI**

## Favoriser l'apprentissage et le bien-être

Tutorat et autres dispositifs d'accompagnement

*Préface de Alain Baudrit*



# Thanks!



[CATHIA.PAPI@TELUQ.CA](mailto:CATHIA.PAPI@TELUQ.CA)



[HTTPS://WWW.TELUQ.CA/CPAPI](https://www.teluq.ca/cpapi)

# References

- Carlana, M., & Ferrara, E. L. (2021). Apart but connected : Online tutoring and student outcomes during the covid-19 pandemic. *IZA Discussion Papers, 14094*. <https://www.econstor.eu/bitstream/10419/232846/1/dp14094.pdf>
- Dietrichson, J., Bøg, M., Filges, T., & Klint Jørgensen, A.-M. (2017). Academic interventions for elementary and middle school students with low socioeconomic status : A systematic review and meta-analysis. *Review of Educational Research, 87*(2), 243-282. <https://doi.org/10.3102/0034654316687036>
- Fryer, R. (2016). *The Production of Human Capital in Developed Countries : Evidence from 196 Randomized Field Experiments* (w22130). National Bureau of Economic Research. <https://doi.org/10.3386/w22130>
- Gallagher-Mackay, K., Mundy, K., Britto, T. F. de, & Asim, M. (2022). *Highlighting the Effectiveness of Tutoring as a Solution to Accelerate Learning and Addressing Education Inequalities in Canada's Post-Pandemic Recovery*. Diversity Institute, Ryerson University, Canada. [https://fsc-ccf.ca/wp-content/uploads/2022/03/The\\_Evidence\\_for\\_Tutoring-EN.pdf](https://fsc-ccf.ca/wp-content/uploads/2022/03/The_Evidence_for_Tutoring-EN.pdf)
- Haeck, C., & Lefebvre, P. (2020). Pandemic School Closures May Increase Inequality in Test Scores. *Canadian Public Policy, 46*(S1), S82-S87. <https://doi.org/10.3138/cpp.2020-055>
- Hall, C., Dahl-Leonard, K., Cho, E., Solari, E. J., Capin, P., Conner, C. L., Henry, A. R., Cook, L., Hayes, L., Vargas, I., Richmond, C. L., & Kehoe, K. F. (2022). Forty Years of Reading Intervention Research for Elementary Students with or at Risk for Dyslexia : A Systematic Review and Meta-Analysis. *Reading Research Quarterly, 58*(n/a). <https://doi.org/10.1002/rrq.477>
- Jansen, D., Elffers, L., & Volman, M. (2022). And then there were three : (Re-)distributing educational responsibilities in response to the growing use of shadow education in the Netherlands. *Cambridge Journal of Education, 52*(5), 615-632. <https://doi.org/10.1080/0305764X.2022.2044760>

- Kuhfeld, M., Soland, J., Tarasawa, B., Johnson, A., Ruzek, E., & Liu, J. (2020). Projecting the Potential Impact of COVID-19 School Closures on Academic Achievement. *Educational Researcher*, 49(8), 549-565. <https://doi.org/10.3102/0013189X20965918>
- Markovitz, Carrie. E., Hernandez, M. W., Hedberg, E. C., & Whitmore, H. W. (2022). Evaluating the Effectiveness of a Volunteer One-on-One Tutoring Model for Early Elementary Reading Intervention : A Randomized Controlled Trial Replication Study. *American Educational Research Journal*, 59(4). <https://doi.org/10.3102/00028312211066848>
- MEQ. (2021). *Plan de relance pour la réussite éducative : L'éducation au-delà de la pandémie – 2021-2022 – Un plan pour tous les élèves du Québec*. <https://cdn-contenu.quebec.ca/cdn-contenu/adm/min/education/publications-adm/education/Plan-relance-reussite-educative.pdf?1620329347>
- MEQ. (2022). *Centres de services scolaires et commissions scolaires. Règles budgétaires de fonctionnement pour les années scolaires 2021-2022 à 2023-2024. Éducation préscolaire et enseignement primaire et secondaire*. Gouvernement du Québec.
- Neitzel, A. J., Lake, C., Pellegrini, M., & Slavin, R. E. (2021). A synthesis of quantitative research on programs for struggling readers in elementary schools. *Reading Research Quarterly*, 57(1), 149-179. <https://doi.org/10.1002/rrq.379>
- Nickow, A. J., Oreopoulos, P., & Quan, V. (2020). The impressive effects of tutoring on PreK-12 learning : A systematic review and meta-analysis of the experimental evidence. *EdWorkingPaper*, 20-267. <https://edworkingpapers.org/sites/default/files/ai20-267.pdf>
- Papi, C. (2024) Favoriser l'apprentissage et le bien-être. Tutorat et autres dispositifs d'accompagnement. Presses de l'Université du Québec.
- Pellegrini, M., Lake, C., Neitzel, A., & Slavin, R. E. (2021). Effective Programs in Elementary Mathematics : A Meta-Analysis. *AERA Open*, 7, 2332858420986211. <https://doi.org/10.1177/2332858420986211>

- Peyrat, M.-F. (2009). Tutorat et apprentissage coopératif au collège. *Carrefours de l'Éducation*, 27(1), 53-68. <https://doi.org/10.3917/cdle.027.0053>
- Piasta, S. B., & Wagner, R. K. (2010). Developing Early Literacy Skills : A Meta-Analysis of Alphabet Learning and Instruction. *Reading Research Quarterly*, 45(1), 8-38. <https://doi.org/10.1598/RRQ.45.1.2>
- Ritter, G. W., Barnett, J. H., Denny, G. S., & Albin, G. R. (2009). The Effectiveness of Volunteer Tutoring Programs for Elementary and Middle School Students : A Meta-Analysis. *Review of Educational Research*, 79(1), 3-38. <https://doi.org/10.3102/0034654308325690>
- Robinson, C., Kraft, M. A., & Loeb, S. (2021). *Accelerating student learning with high-dosage tutoring*. EdResearch for Recovery. <https://files.eric.ed.gov/fulltext/ED613847.pdf>
- Roschelle, J., Cheng, B. H., Hodkowski, N., Neisler, J., & Haldar, L. (2020). *Evaluation of an Online Tutoring Program in Elementary Mathematics*. Digital Promise. <https://doi.org/10.51388/20.500.12265/94>
- Schueler, B. (2022, mai). High-Dosage tutoring. *National Association of State Boards of Education*, 22(2), 18-21. <https://files.eric.ed.gov/fulltext/EJ1357142.pdf>
- Slavin, R. E. (2021). *Highlight Tutoring Among Post-Covid Solutions*. Robert Slavin's Blog. <https://robertslavinsblog.wordpress.com/category/summer-school/>
- Wasik, B. A., & Slavin, R. E. (1993). Preventing early reading failure with one-to-one tutoring : A review of five programs. *Reading Research Quarterly*, 28(2), 178-200. <https://doi.org/10.2307/747888>