



LATVIJAS UNIVERSITĀTE
**PEDAGOĢIJAS,
PSIHOĢIJAS UN
MĀKSLAS FAKULTĀTE**

NACIONĀLAIS
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IEGULDĪJUMS TAVĀ NĀKOTNĒ



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Self-confidence in 4th and 9th Grade – How it Differs Between Age, Subjects, Gender and Countries Around the Baltic Sea?



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THE PURPOSE OF THIS STUDY

- ◆ Is there a difference between students with low and high self-confidence in terms of:
 - ◇ Age (grade),
 - ◇ Gender,
 - ◇ SES,
 - ◇ Enjoyment of studying, etc.
- ◆ and if there is a difference which of these factors are more significant to each group?

FROM THE PERSPECTIVE OF THE THEORY

- ◆ Students' achievement is related to their background
- ◆ One of the most influencing factors from students' background data is students' confidence (Vesić et al., 2021)
- ◆ Confidence is reciprocally related to achievement (Marsh et al., 2005)

SELF-COMFIDENCE IS INFLUENCED BY



- ◆ Social comparison
- ◆ Dimensional comparison
- ◆ Temporal comparison
- ◆ Big fish in little pond effect
- ◆ I'm good at ... and that means that I'm bad at ...
- ◆ I was good at ... last year, now I'm better/worse

THE HIGHEST AND THE LOWEST SELF-CONFIDENCE





ASSESSMENTS USED IN THIS STUDY



PIRLS 2016

4th grade

Reading self-concept



TIMSS 2019

4th grade

Math self-concept
Science self-concept



PISA 2012

9th grade

Math self-concept



PISA 2015

9th grade

Science self-concept



PISA 2018

9th grade

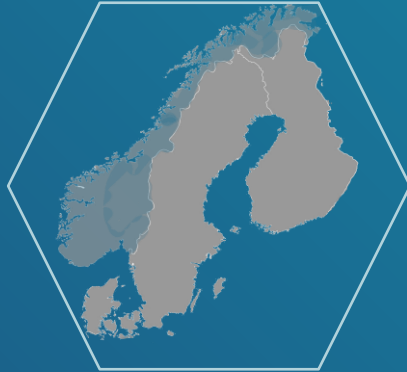
Reading self-concept



COUNTRIES OF COMPARISON



Latvia
Lithuania



Finland
Sweden
Denmark



Poland



Germany



MAIN FINDINGS - READING

The lowest self-confidence

- Reading achievement
- Like reading ++

The highest self-confidence

- Like reading



The lowest self-confidence

- Reading achievement ++
- Like reading
- Teacher's stimulation of reading engagement (Latvia, Lithuania, Sweden)

The highest self-confidence

- Reading achievement



MAIN FINDINGS - MATH

The lowest self-confidence

- Like Learning Mathematics ++
- Math's Achievement ++

The highest self-confidence

- Instructional Clarity in Mathematics Lessons
- Math's Achievement
- Like Learning Mathematics



The lowest self-confidence

- Math's Achievement
- Math anxiety
- Supportive teacher (Latvia, Sweden)

The highest self-confidence

- Math's Achievement ++
- Math's anxiety - -
- Mathematics behaviour
- Math's interest (Denmark, Lithuania, Sweden)



MAIN FINDINGS - SCIENCE

The lowest self-confidence

- Like learning science ++
- Science achievement

The highest self-confidence

- Like learning science
- Instructional Clarity in Science Lessons



The lowest self-confidence

- Science achievement
- Enjoyment of Science
- Interest in broad science topics
- Inquiry-based science teaching and learning practices

The highest self-confidence

- Index of science activities
- Teacher support in a science classes (Latvia, Poland)



DISCUSSION/CONCLUSIONS

SES

SES wasn't significant predictor of student's self-confidence in any of two confidence groups and grades

Achievement

In both age and gender groups achievement was significant predictor, it was stronger for the lowest self-confidence group and 9th grade students

Gender 4th grade

Gender wasn't significant predictor of student's self-confidence

Like/enjoy to learn

In both age and gender groups liking or enjoying to learn subject was significant predictor, it was stronger for the lowest self-confidence group students

Gender 9th grade

More girls in the highest self-confidence group in reading and Science;

More boys in the highest self-confidence group in Math

Instr. clarity/support

Students who understand their teacher and have supportive attitude from teacher have higher self-confidence



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