

# Is the Aim of Math Education Off?

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<https://www.youtube.com/@LearnMoreWithDanWolczuk>

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# Aims of Math Educators

- Developing mathematical understanding.
- Promoting critical thinking and problem-solving skills.
- Fostering a positive attitude towards mathematics.
- Preparing students for advanced studies.

# Aims of Math Education Researchers

- Advancing knowledge in math education.
- Disseminating research findings.
- Contributing to policy and practice.
- Securing funding for research.

# Problems in Math Ed Research

- Innovating for the sake of innovation.
- Poor study design.
- Ignoring opportunity cost.
- Measuring performance gains rather than learning gains.



# Math Education is helpful!

Math education research provides valuable insights and ideas.

However, it shouldn't dictate your actions!

# Using Math Education Research

1. Critical evaluate the research.
2. Experiment.
3. Reflect.



# Thank You

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# Articles on meta research for Math Education

I found this paper (<https://link.springer.com/article/10.1007/s11858-024-01587-7>) extremely interesting as I mostly see just US math ed research (by attending SIGMAA on RUME which I highly recommend to all of you).

This paper ([https://brill.com/view/journals/irme/1/1/article-p53\\_3.xml](https://brill.com/view/journals/irme/1/1/article-p53_3.xml)) talks about the replication crisis in math ed. I think this is a good read. I actually like quite a few articles from this journal (<https://brill.com/view/journals/irme/irme-overview.xml>)

This article (<https://blogs.ams.org/matheducation/2017/06/26/what-is-math-ed-research-all-about-as-explained-by-a-muggle-in-a-math-department/>) describes my views of RUME and SoTL better than I could.