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Primary Mathematics Education Methodologies

Gabi Coty
Ohio Wesleyan University

Primary Grades Mathematics Education:
A Cross Country Comparison

Presentation by Gabi Coty

Website: https://internationalmath.wixsite.com/teachmath

United States

- Common Core
- Standards Reform
- Standardized Tests
- Constructivist Approach
- Every Student Succeeds Act (ESSA)
- Is your answer correct?
- Non-metric system country

Lesson Study

1. Goal-Setting
2. Lesson Planning and Teacher Collaboration
3. Research Lesson
4. Post-Lesson Discussion and Reflection

Finland

- Child-centered Approach
- Teacher licensure at the Master's Level
- Promote Student Growth
- Cultural Importance of Education
- Create a strong learning environment

Singapore

- Student-centered
- Encourage potential and develop the individual
- Higher-order thinking skill
- Focus is on the learning and process
- Assist low-achieving students
- Respect for teachers and education
- Highly trained teachers

The first step towards improvement is creating awareness that there are alternate possibilities available and to continue to try new things. Many countries with successful systems culturally place great respect and importance on education, as they should. Education is a process of learning, and with an ever changing world, it is essential to remember we can always be learning and adapting for the improvement of our future society.

Want to learn more?

Finland

- http://says.com/my/imho/malaysia-vs-finland-s-education-system
  - Distinct characteristics of Finland's education system
- http://www.oph.fi/english
  - Finnish National Agency for Education

Japan

- http://www.mext.go.jp/en/policy/education/index.htm
  - MEXT Education page (Ministry of Education, Culture, Sports, Science, and Technologies - Japan)
- http://www.educationworld.com/a_admin/admin/admin382.shtml
  - More on Lesson Study

Singapore

- https://www.moe.gov.sg/education
  - The Ministry of Education in Singapore
- https://www.moe.gov.sg/docs/default-source/document/education/syllabuses/sciences/files/primary_mathematics_syllabus_pri1_to_pri5.pdf

United States

- https://www.ed.gov/essa?src=rn
  - Every Student Succeeds Act (ESSA)
- https://nces.ed.gov/programs/coe/indicator_cnk.asp
  - The National Center for Education Statistics (US) released these statistics regarding education.
- http://www.corestandards.org/
  - Common Core State Standards Initiative

International Countries Systems and Comparisons

- http://www.oecdbetterlifeindex.org/topics/education/
  - This site ranks the education systems of various countries worldwide and the factors that affect their educational attainment.
- https://nces.ed.gov/timss/
  - Trends in International Mathematics and Science Study (TIMSS)
- https://www.oecd.org/pisa/pisa-2015-results-in-focus.pdf
  - The OECD Programme for International Student Assessment, or PISA, 2015 results.

Check out the links on the resources page on my website for more, as well as for information on other countries' early mathematics pedagogies!