



מכון ויצמן למדע
WEIZMANN INSTITUTE OF SCIENCE

THE SCIENCE TEACHING DEPARTMENT CELEBRATES 50 YEARS OF ACTIVITY

JANUARY 7-8, 2019 | The David Lopatie Conference Centre, Weizmann Institute of Science

א'-ב' בשבט תשע"ט | מרכז הכנסים ע"ש דוד לופאטי, מכון ויצמן למדע

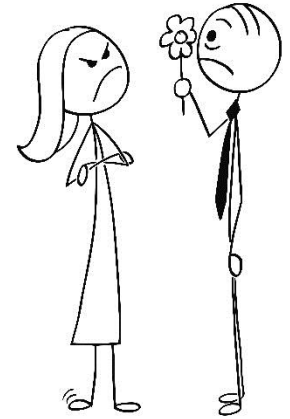
A mathematics educator's apology

Abraham Arcavi

Plea for forgiveness

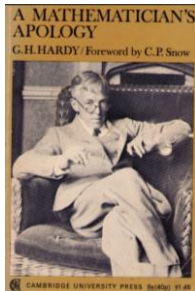


**Admission of error
or discourtesy**



apology

*"It is a melancholy experience
for a professional ... to find
himself writing about..."*
(Hardy)

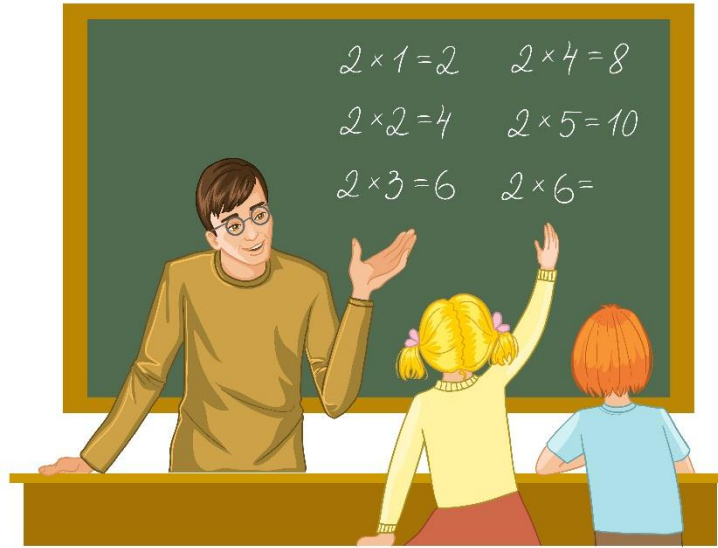


Defense (re: criticism)

Justification (re: raison d'être)

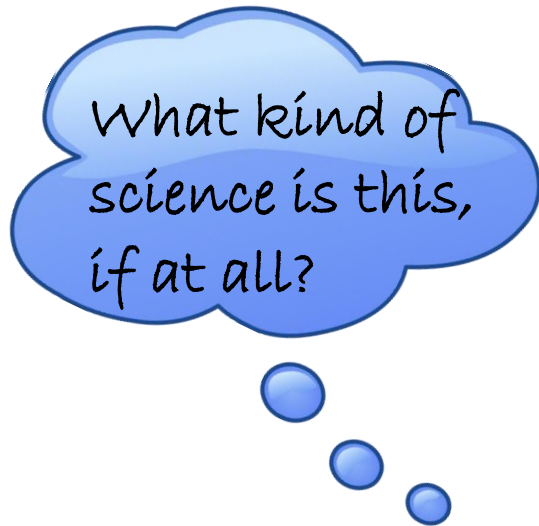
Explanation (re: What is it?)

A mathematics educator's apology



mathematics educator

A mathematics educator's apology



- Young discipline
- Multiple foci
- Multiple perspectives



- Observation of phenomena
- Relevant, challenging questions
- Imagination, creativity
- Designing/testing experiments
- Theories (describe, explain)
- Evidence (not on faith)
- Systematicity in reasoning
- Scrutiny by peers
- Recognition of failures
- Problematizing, complexifying
- Perseverance, passion



- Breakthroughs?
- Embedded in culture
- Stability/permanence of results
- Replicability?
- Making predictions
- Common sense, reflection
- Maturity

**“LET NOT HIM THAT GIRDETH ON
HIS ARMOUR BOAST HIMSELF
AS HE THAT PUTTETH IT OFF”**

1 Kings 20:11

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אַל-יִתְהַלֵּל חִגֵּר בְּמַפְתָּח

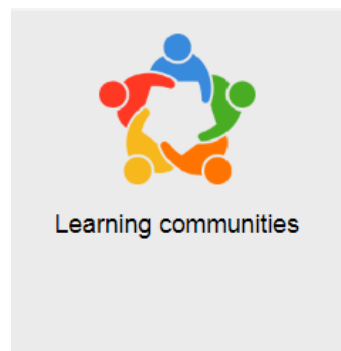
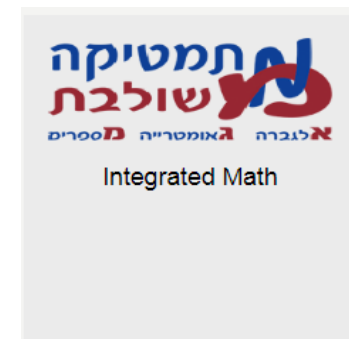
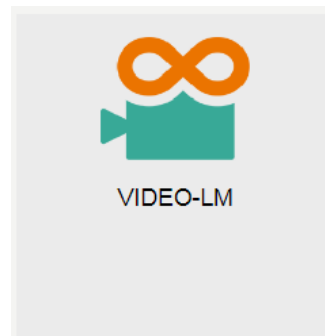
מלכים א', כ' - י"א

“LET NOT HIM THAT GIRDETH ON
HIS ARMOUR BOAST HIMSELF
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אַל-יִתְהַלֵּל חֵקֶר בְּמַפְתָּח

מלכים א', כ' - י"א





IMPACT

Long-lasting effect & far reaching influence



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Thank you very much!