

# Matematinis švietimas Lietuvoje ir pasaulyje

Andrius Berniukevičius

## Tradicinė mokykla

Demonstracija

Imitacija

Automatizacija

Improvizacija

## Moderni mokykla

Demonstracija

Imitacija

Automatizacija

Improvizacija XXI a.

# ATRADIMAIMIS GRĮSTAS MOKYMAS(-IS)

Problem-based learning  
Inquiry-based learning  
Discovery-based learning  
Constructivism



DANIEL T.  
WILLINGHAM

WHY DON'T  
STUDENTS

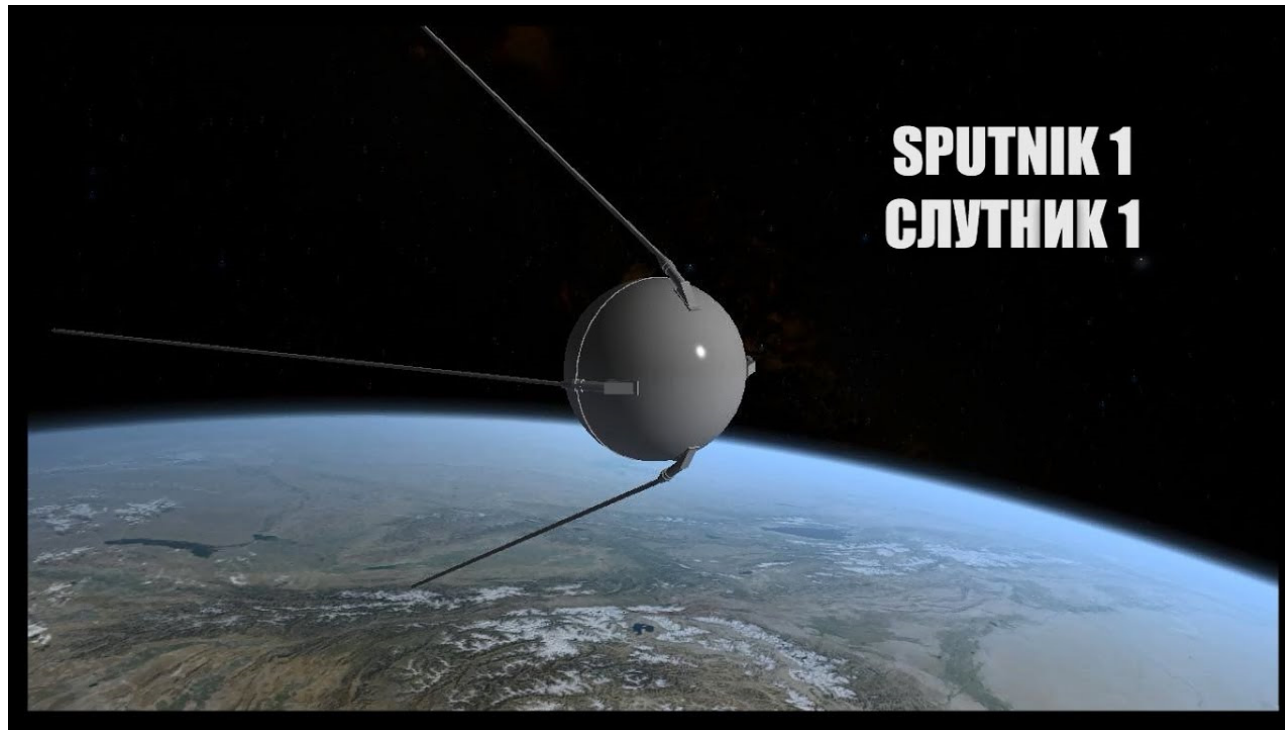
*Like*

SCHOOL?



A **COGNITIVE SCIENTIST**  
ANSWERS QUESTIONS ABOUT HOW  
**THE MIND** WORKS AND WHAT IT  
MEANS FOR **THE CLASSROOM**

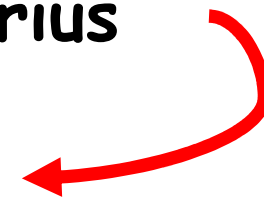
1957 m. spalio 4 d.



JAV švietimo reforma

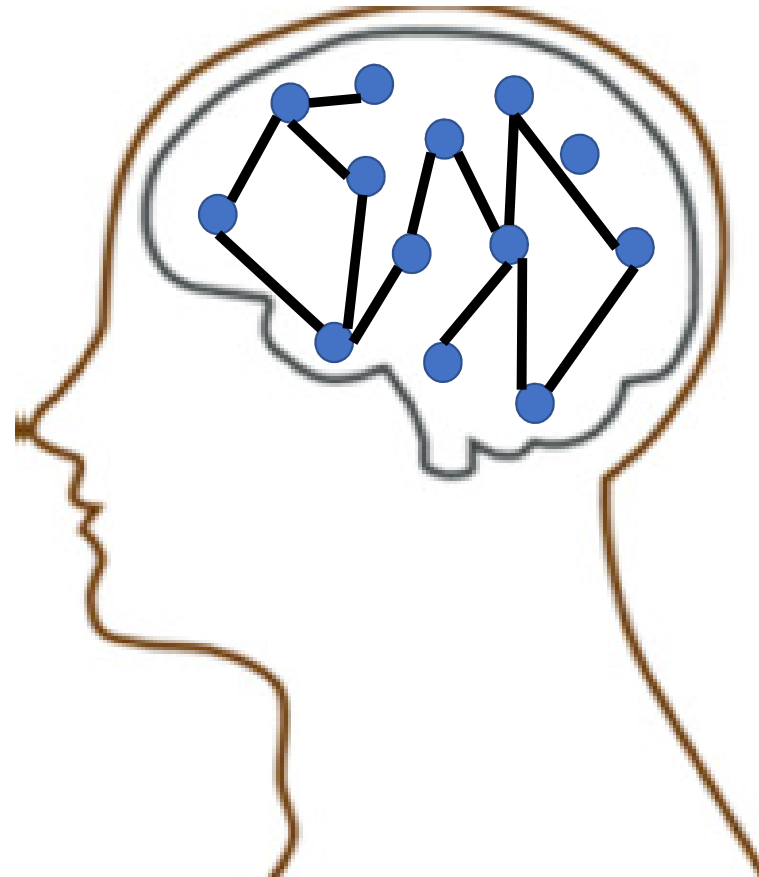


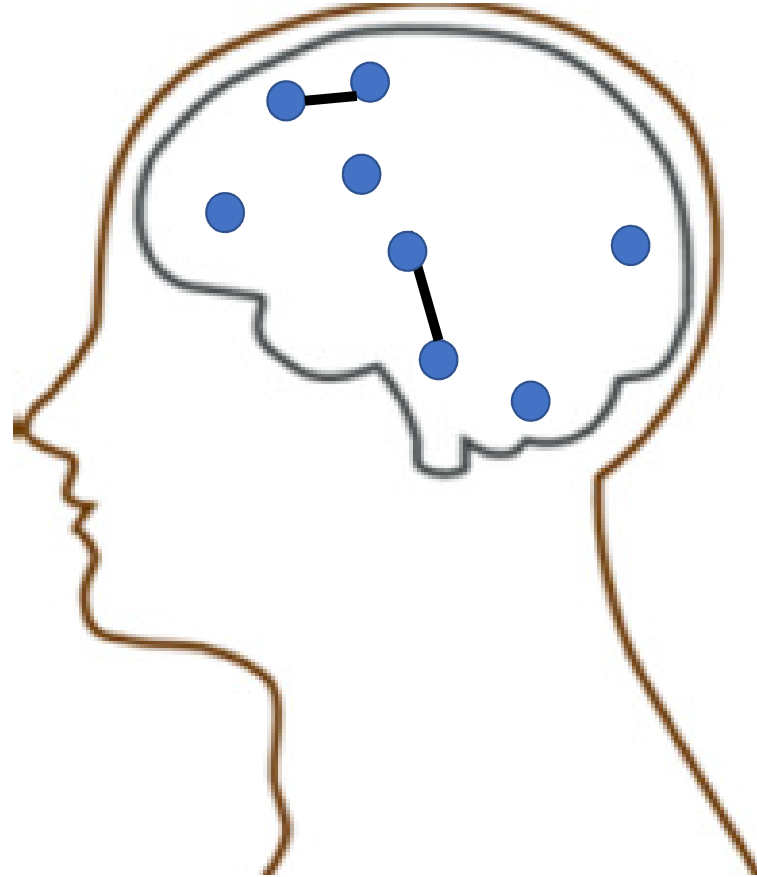
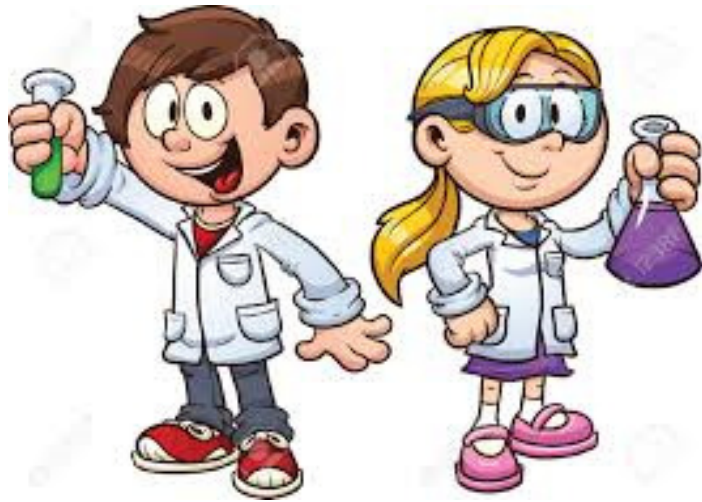
Vaikus ugdyti taip, kaip mąsto  
mokslininkas ir inžinierius



=









Article

PDF Available

## Why Minimal Guidance During Instruction Does Not Work: An Analysis of the Failure of Constructivist, Discovery, Problem-Based, Experiential, and Inquiry-Based Teaching

June 2006 · *Educational Psychologist* 41(2)

DOI: [10.1207/s15326985ep4102\\_1](https://doi.org/10.1207/s15326985ep4102_1)

### Authors:



**Paul Kirschner**

ORCID iD 44.03 · Open Universiteit Nederland



**John Sweller**



**Richard Edward Clark**

ORCID iD 30.95 · University of Southern California



Download citation



Copy link

[Straipsnis angly kalba](#)

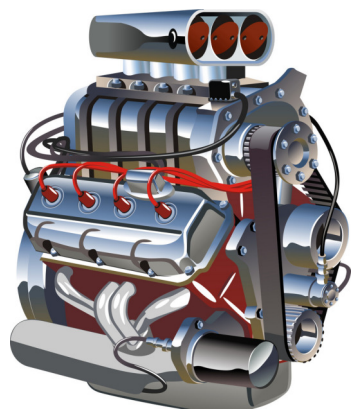
„Informacijos pertekusiame pasaulyje gebėjimai – kritinis, analitinis, kūrybinis mąstymas, gebėjimas spręsti problemas, iniciatyvumas, socialumas ir kiti – tampa vertingesni už atminties saugyklose sukauptą informaciją.“ Geros mokyklos koncepcija



**Herbert A. Simon. William G. Chase. Skill in Chess.**

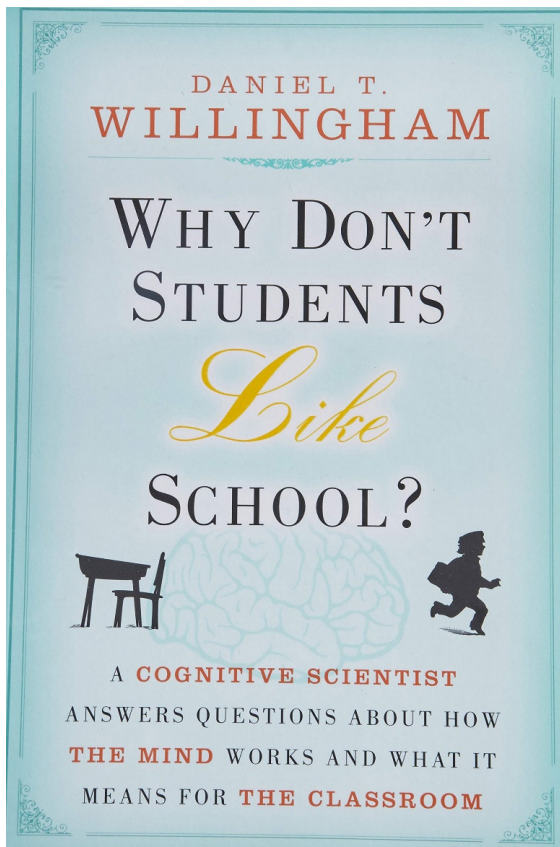
# KŪRYBIŠKUMAS ?





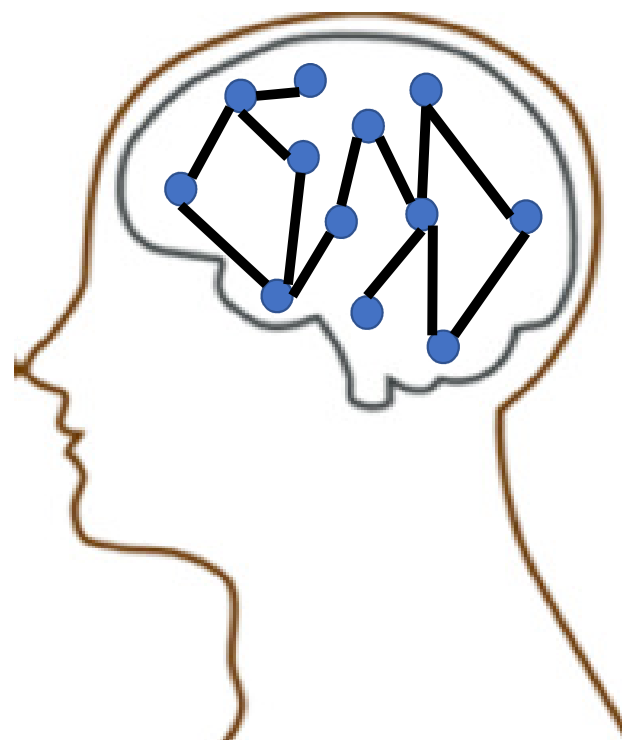
**Intelektualinis kūrybiškumas** - tai gebėjimas išspręsti uždavinį, kurio nemokė kaip spręsti arba išspręsti pažįstamą uždavinį savo būdu

# Skaitymo ir atminties problemos

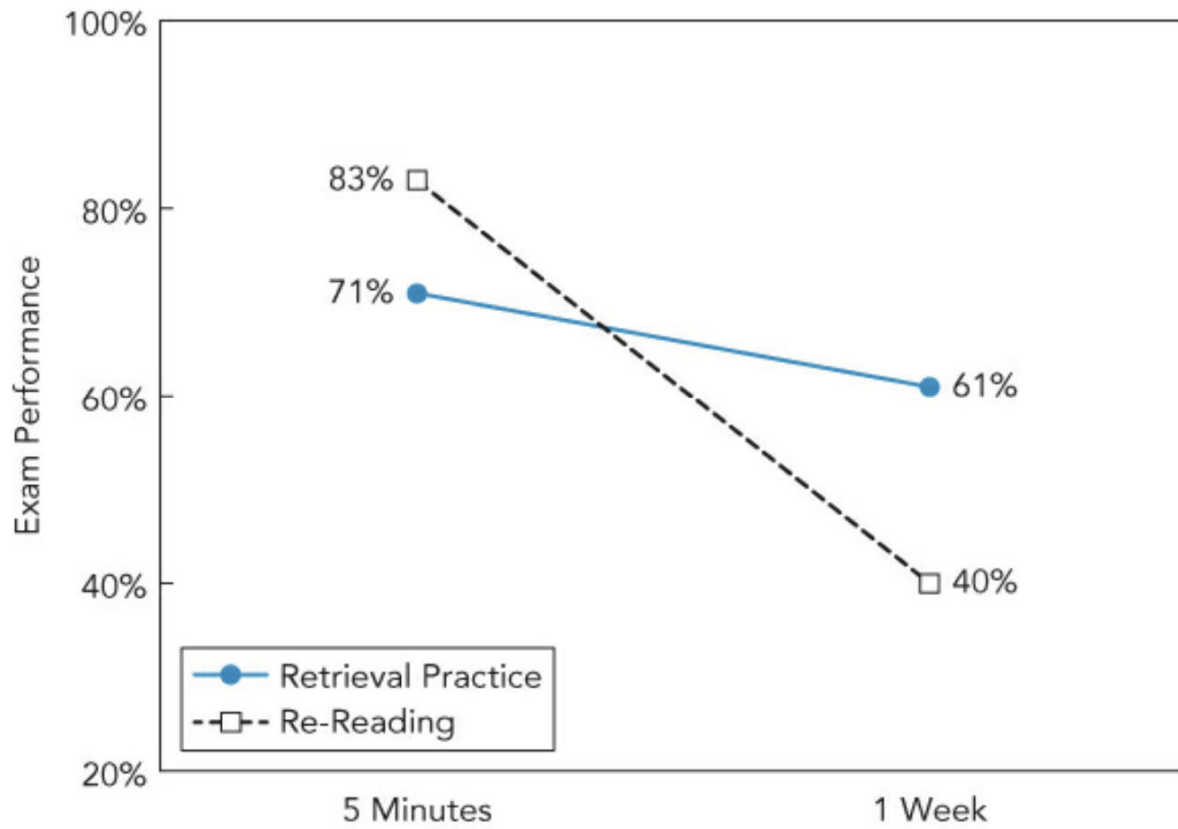


Demonstracija  
Imitacija  
Automatizacija  
Improvizacija

KODĖL?

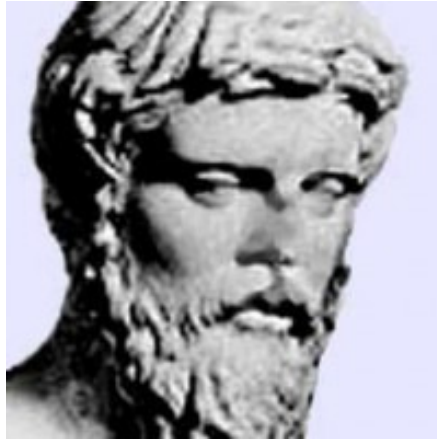


Informacija vs Žinios



Spaced repetition  
Retrieval practice





PLUTARCHAS

~~Mokinys ne indas, kurį reikia  
pripildyti, o deglas, kurį reikia  
uždegti.~~

NEPRIILDYSI - NEUŽDEGSI !!!!

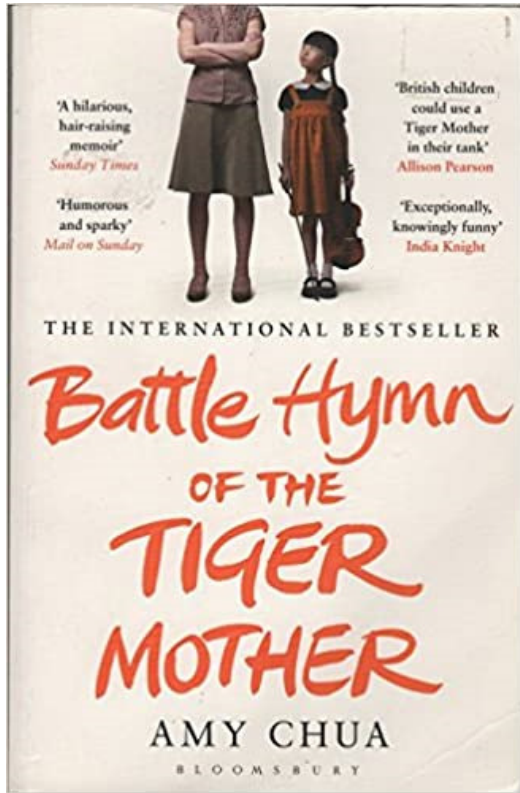


10%



25%





'A hilarious,  
hair-raising  
memoir'  
*Sunday Times*

'Humorous  
and sparky'  
*Mail on Sunday*

'British children  
could use a  
Tiger Mother  
in their tank'  
*Allison Pearson*

'Exceptionally,  
knowingly funny'  
*India Knight*

THE INTERNATIONAL BESTSELLER

# Battle Hymn OF THE TIGER MOTHER

AMY CHUA

BLOOMSBURY

- Tu kaip ir aš humanitarė, todėl tau nesiseka matematika.
- Mokykla, mokytojas blogas, kad tu nemoki matematikos.
- Svarbiausia pasitikėjimas savimi, mokslai nesvarbiausia.
- Jeigu dar atneši blogą pažymį, negausi telefono.





- Jei tau nesiseka matematika, tiesiog turi daugiau dirbti.

• Home / China / Education

# UK schools eye Shanghai math books

By ZHANG KUN | China Daily | Updated: 2017-03-17 07:37



[http://www.chinadaily.com.cn/china/2017-03/17/content\\_28587696.htm](http://www.chinadaily.com.cn/china/2017-03/17/content_28587696.htm)

# UK schools teach maths Singapore-style to boost standards

Asian textbooks adapted for British classrooms in bid to emulate success

<https://www.ft.com/content/14317238-b594-11e7-aa26-bb002965bce8>



## Tarptautinės matematikos olimpiados rezultatai

		<b>G</b>	<b>S</b>	<b>B</b>	
<b>1.</b>	People's Republic of China	1985	162	36	6
<b>2.</b>	United States of America	1974	133	115	29
<b>3.</b>	Russian Federation	1992	101	61	12
<b>4.</b>	Hungary	1959	85	167	102
<b>5.</b>	Republic of Korea	1988	81	73	28
<b>6.</b>	Romania	1959	78	146	108
<b>7.</b>	Union of Soviet Socialist Republics	1959	77	67	45
<b>8.</b>	Vietnam	1974	64	109	75
<b>9.</b>	Bulgaria	1959	54	120	112
<b>10.</b>	Germany	1977	51	103	82

## Tarptautinės matematikos olimpiados rezultatai

61.	LVA	Latvia	1993	1	11	38
62.	FIN	Finland	1965	1	10	53
63.	SAF	South Africa	1992	1	9	49
64.	LTU	Lithuania	1993	1	8	51



# MICHAELA

KNOWLEDGE IS POWER



[www.mcsbrent.co.uk](http://www.mcsbrent.co.uk)

Tel: 020 8795 3183

**Secondary School - Private School Ethos - No Fees**