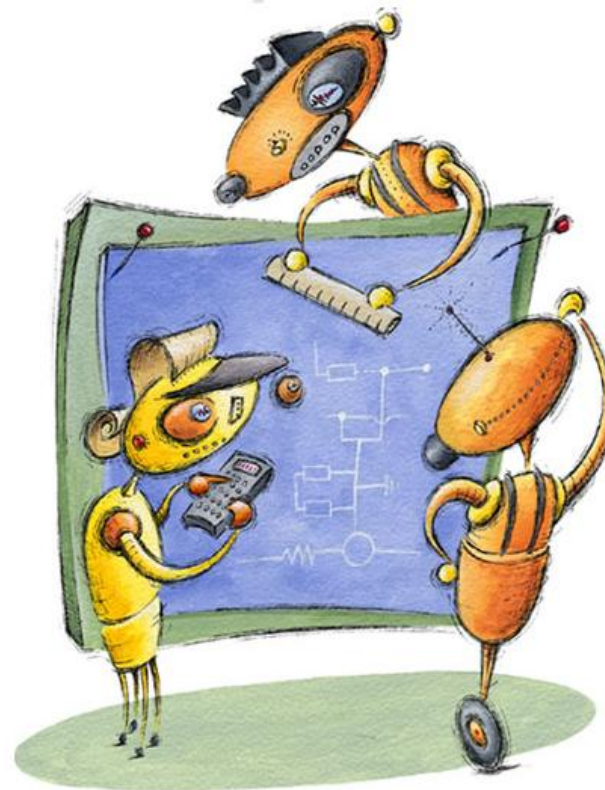


MathWorks is a proud sponsor of the MIT Science Trivia Challenge and wishes the teams good luck!

We support programs that inspire learning and advance education in engineering, science, and math. Our strong commitment to education comes from believing in the power of learning and the ability of engineering, science, and math to find innovative solutions to real-world problems.



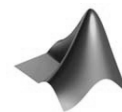
## SCIENCE TRIVIA CHALLENGE!



Wednesday, April 17, 2013  
Broad Institute of MIT & Harvard

**@MITtrivia Live Tweet using #MITtrivia13**

Sponsored by



**MathWorks**



[web.mit.edu/trivia](http://web.mit.edu/trivia)

<b>Youth Division</b>	Round	Table
Nano-know-it-alls	A	1
Bulldogs	A	2
Boom!	A	3
Everyday Faraday	A	4
The Inuit Integrals	A	5
Montrose Mavericks	A	6
Shrewsbury A	A	7
O'Bryant Tigers	A	8
Smarticle Particles	B	1
The Higgs Bosons	B	2
BaCoN	B	3
We're so Below Coming Up with a Name	B	4
Blue Diamonds	B	5
The Merpeople	B	6
Shrewsbury B	B	7
Solaris	B	8

<b>Open Division</b>	Table
Schrodinger's Cool Cats	1
The Not-So-Civil Engineers	2
Woof!	3
Walter Lewin's Best Lines	4
Einstein's Mustache	5
I Haz Laser	6
CRLS Science Team Opportunity	7
CRLS Science Team Respect	8

#### General Rules

This competition is for fun, so **NO CHEATING!**

No outside references are allowed, including books, cheat sheets, informative t-shirts, computers, handheld devices, etc. Pencil, pens and blank paper are allowed and are provided.

Team members may confer within their team on each question, but neither team members nor audience members are allowed to shout out answers or offer any other distractions while teams are considering questions.

#### Science Trivia Challenge Committee

COMMITTEE MEMBERS: Bob Ferrara (MIT '67), Co-Chair; John McGoldrick (MIT '73), Co-Chair; Orville Dodson (MIT '68), Stephen Eltinge (MIT'14), Meghan Jendrysik (MIT '97), Andre Kelly (MIT '00), Bonny Kellermann (MIT '72), Jennifer Lam, Peg LeGendre, Katie Maloney, Jeff Roberts (MIT '02, MCP'03), Alex Rosen (MIT '94), Bob Schwartz (MIT '58), Alisha Weight (PhD'13)

VOLUNTEERS: Catherine Cooper (MIT '00), Chris Dippel (MIT '75), Diane Korelitz, Ted Korelitz (MIT '56), Suzanne Pan (MIT '85 SM'86), Crystal Ray (MIT'11), Chris Santos (MIT '74), Nataliya Yufa (MIT'01)

QUESTION CONTRIBUTORS: Teresa DiCureia, The Acton Discovery Museums; Bob Karash, John Maloney\* (MIT MNG'06, PhD '12), R. Mapes Maloney, John McGoldrick\* (MIT '73), Chris Morse (MIT PhD '98), Jeff Roberts\* (MIT '02, MCP'03), Alex Rosen\* (MIT '94), Shardule Shah, James Tanton, Alisha Weight\* (MIT G '13),

\* These contributors also served as question editors.

Interested in helping next year?

Do you have questions to contribute?

Contact us:

sciencetrivia@mit.edu

or web.mit.edu/trivia

**Teams, audience and volunteers please complete our survey by April 24 at**

**<https://www.surveymonkey.com/s/ScienceTrivia2013>**

**or use this QR code to access the survey**



**Like us on facebook to see/add photos from tonight:**

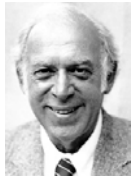
**<http://www.facebook.com/MITTrivia>**

## Prizes

**All participants** receive a Mathworks certificate of participation, a pass to the Museum of Science and a gift from Cell Press.

**Grand Prize:** The Open Division, Youth Gold and Youth Silver Top Teams, and the top scoring Middle School Team will each dine with one of our Nobel Laureates. The **Open Division runner-up** team members will each receive a copy of "For the Love of Physics" and two extra tickets to the Museum of Science. The **Youth Gold Runner-up** team members will each get an MIT sweatshirt from the MIT Coop. The **Youth Silver Runner-up** team members will each get two extra passes to the Museum of Science and a pass to The Discovery Museums of Acton, MA. **All winning team members** will receive a signed copy of Walter Lewin's famous photo of him hanging from his pendulum.

### Thank you to our Nobel Laureates & additional prize sponsors!



#### Jerome Friedman

MIT Professor of Physics  
1990 Nobel Prize Winner "For their pioneering investigations concerning deep inelastic scattering of electrons on protons and bound neutrons, which have been of essential importance for the development of the quark model in particle physics"



#### Robert Horvitz

MIT Professor of Biology  
2002 Nobel Prize Winner "For their discoveries concerning genetic regulation of organ development and programmed cell death"



#### Wolfgang Ketterle

MIT Professor of Physics  
2001 Nobel Prize Winner "For the achievement of Bose-Einstein condensation in dilute gases of alkali atoms, and for early fundamental studies of the properties of the condensates"



#### Phillip Sharp

MIT Professor of Biology  
1993 Nobel Prize Winner "For his discoveries of split genes"

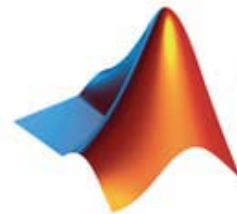
**Museum of Science, Boston, MA**  
**The Discovery Museums of Acton, MA**  
**The MIT COOP**  
**Cell Press**

# SCIENCE TRIVIA CHALLENGE!

## Schedule of Events

6:00 PM - 6:05 PM	Welcome
6:05 PM - 6:30 PM	Youth Preliminary Round A
6:30 PM - 6:55 PM	Youth Preliminary Round B
6:55 PM - 7:00 PM	Intermission
7:00 PM - 7:05 PM	A Word from our Sponsor, Mathworks
7:05 PM - 7:50 PM	Open Division
7:50 PM - 7:55 PM	Intermission
7:55 PM - 8:20 PM	Youth Silver Division Final
8:20 PM - 8:45 PM	Youth Gold Division Final
8:45 PM - 9:00 PM	Awards Ceremony

Tell us what you think! Complete the STC survey by April 24  
<https://www.surveymonkey.com/s/ScienceTrivia2013>



# MathWorks

## ROUNDS

- Questions are either multiple choice or require a specific short-answer. Some questions have multiple parts.
- Each team will have a scorekeeper standing nearby. Before each question is read, the scorekeeper will hand each team its answer sheet for that question.
- After the moderator finishes reading the question, each team will have 30-60 seconds to enter an answer in the appropriate space on their answer sheet AND HAND THE SHEET BACK TO THE SCOREKEEPER. Once the answer sheet has been handed to the scorekeeper, that answer is considered final.
- The moderator will call "TIME" when the answer must be turned in.
- After time has expired, the moderator will read the correct answer to the question and the scorekeeper will award points based on whether a team's answer is correct or incorrect.
- At the end of each round, the answer sheets are submitted to the head scorekeeper for final point tabulation.

## YOUTH DIVISION

- All Youth Division teams will compete in a Preliminary Round and a Final Round.
- The higher-scoring teams from each Preliminary Round will meet in the Youth Gold Division Final. The remaining teams will meet in the Youth Silver Division Final.
- The winners of each Final Round (Gold & Silver) and the highest scoring Middle School Team will each win a grand prize.
- Teams may substitute members between the Preliminary Round and Final Round. HOWEVER, NO CONTESTANT MAY COMPETE ON MORE THAN ONE YOUTH TEAM THROUGHOUT THE COMPETITION.

## OPEN DIVISION

- There is a single flight of teams entered in the open division.
- All of the teams will compete at the same time in a 15 question tournament.
- The highest point scoring team will win a grand prize.

## Our Moderator, Prof. Walter Lewin

We are thrilled that MIT Professor Walter Lewin is returning for his fourth year as our Moderator for the Science Trivia Challenge. A native of The Netherlands, Professor Lewin received his Ph.D. in Physics from the University of Delft (1965). He joined the MIT physics faculty in 1966. He achieved celebrity status after a front page story on him appeared in *The New York Times* (12.19.07). The piece, which examined the popularity of his free online lectures ([http://ocw.mit.edu – search Lewin](http://ocw.mit.edu-search/Lewin)), led to features about him on the CBS Evening News, *The Boston Globe*, *Forbes* and the *Guardian*. He was named in "The Best 300 Professors: From the #1 Professor Rating Site, RateMyProfessors.com (College Admissions Guides)"



His highly acclaimed memoir, "For the Love of Physics: From the End of the Rainbow to the Edge of Time – A Journey through the Wonders of Physics" was published in 2011 and is now available in paperback.