



TUMBLEHOME

PENDRED (PENNY) NOYCE, M.D. **School visits and book talks**

I'm passionate about science and literacy. Even before I wanted to be a doctor, I wanted to write books, and I've been lucky enough to do both. As the author of 13 books for children and counting, I try to bring the magic of story together with the wonder of science, creating science books for kids as a way of sparking young people's interest in discovery and learning.

FEES

I ask that you cover my travel expenses (these can be shared with a neighboring school or other setting) as well as the following fees:

A large assembly: \$300

A single class: \$250

A full day on site, with several talks to student or teacher groups of different sizes: \$850.

I also ask that students be given an opportunity to order copies of my books before the visit.

All fees can be negotiated for a high-needs school that is short of resources.

For further information, write pnoyce@tumblehomebooks.org or visit <http://www.tumblehomebooks.org>

I worked as a medical doctor in Minnesota and Boston, then had five children and shifted to work on education issues. I helped lead the Noyce Foundation, which supported early literacy, math and informal science education programs nationwide. We wound down the foundation in 2015, though I still chair the board of STEM Next, which strives to make fun, engaging afterschool science available to kids throughout the country.

I've talked about my books and the ideas behind them to people from 4th grade to college, to teachers and practicing scientists. I've talked about education research at the National Science Foundation and National Academies, and I've presented on my books or on science education in California and Massachusetts, China, Ireland, and France. I have served on a number of nonprofit education boards and the Massachusetts Board of Elementary and Secondary Education.

Here is menu of talks and presentations suitable for schools:

Historical Women in Science – Based on *MAGNIFICENT MINDS* and *REMARKABLE MINDS*, award-winning books on 33 women of science from seven countries over five centuries. This is a slide talk based on themes and examples of how curious and dedicated women overcame barriers to achieve at the highest levels in science, and it can be adapted to audiences from 4th grade through adult.

Invention in America – Based on *INVENTORS, MAKERS, BARRIER BREAKERS*, a slide talk for one class period filled with anecdotes about diverse American inventors. The talk can be supplemented with film snippets and can be adapted to grades 2 through adult. An invention activity can be added if desired.

What's So Special about Bridges?
– Based on *ENGINEERING BRIDGES*, coming December 2019, a slide talk of bridges from around the world. I talk about

how different materials have historically led to new bridge styles and vice-versa. Can be adapted for grade 4 and up, as one class period with an optional bridge-building activity for another 30-45 minutes.

Mosquitoes – Science background relevant to *MOSQUITOES DON'T BITE ME*, an award-winning multicultural science adventure. I can talk about mosquitoes, their role in disease, and scientific advances against malaria, dengue, Zika and other mosquito-borne diseases. This talk will be most relevant to students or classes who are reading the book, and can come before, after, or during the reading.

How Did We Get the Computer Chip?
Based on information in *THE DESPERATE CASE OF THE DIAMOND CHIP* (grades 4-7) and *INVENTORS, MAKERS, BARRIER BREAKERS* (grades 7 and up), this is a slide talk about the science behind the computer chip. I especially like to tell the story of my father, Robert Noyce, who invented the integrated circuit and co-founded Intel.

Babying Your Brain – Based on *THE BAFFLING CASE OF THE BATTERED BRAIN*, a brief overview of brain science and concussion, with activities, for grades 4-6. Length and specific content of program negotiable.

Science Poetry – Best done as a workshop over 3-4 sessions. Introduces kids to some science poems with a discussion of what makes them effective. Kids then choose a science topic that interests them, research it, brainstorm words, main concepts, images, connections—and write a poem. They share in small groups, receive feedback, and revise at least once before publishing a classroom collection. The purpose of the workshop is to ask kids to notice closely, connect both emotionally and intellectually to a science subject, and bring their creativity to bear.

Resisting Scientific Misinformation
– A workshop for teachers of grades 6-12 on how to use a free, 4-day, teaching unit meant to give kids the tools to sort out what's likely to be true or false in "science" they encounter online.

