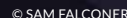


IN HIGH SCHOOLS | EDUCATOR GUIDE



The SN 10: Scientists to Watch



SOCIETY FOR
SCIENCE & THE PUBLIC

About this Issue

Beginning on Page 16 of this special issue, we highlight 10 early- and mid-career scientists on their way to widespread acclaim. The SN 10: Scientists to Watch includes a tech-savvy seafarer tracking ocean carbon, a materials scientist challenging what it means to be “alive” and a computational biologist willing to get personal with his microbiome, among many others who are making important advances in their chosen fields. Think of them as the Taylor Swifts of science. None have recorded hit singles – at least not that our reporting uncovered – but all were nominated by a Nobel laureate or recently elected member of the National Academy of Sciences. And all were age 40 or younger at the time of nomination. The articles highlight the great diversity of research questions currently under investigation. The articles put a human face on the scientific endeavor, and are a springboard for discussing what it takes to succeed in science.

Connections to Your Curriculum

“A gut check gets personal” By Tina Hesman Saey	“Tech-savvy seafarer tracks carbon” By Thomas Sumner
DNA	Oceans and currents
Bacteria and viruses	Fluid dynamics
Human health	The carbon cycle
Diet and nutrition	Nutrient cycling
Data collection	Climate change

What’s in this Guide?

- [Comprehension questions](#) based on the article “[A gut check gets personal](#),” Page 19, which explores how one scientist examined his own body to understand the teeming ecosystem within
- [Discussion prompts](#) that encourage students to reflect on the life of a scientist and what skills or characteristics scientific research requires
- [The World in a Bucket activity](#), which accompanies the article “[Tech-savvy seafarer tracks carbon](#),” Page 22, and gives students the opportunity to explore the motions of fluids

Standards Alignment

Next Generation Science	Common Core
Structure and Function: HS-LS1-3	ELA Standards: Reading Informational Text (RI): 1, 2, 3, 4
Interdependent Relationships in Ecosystems: HS-LS2-2 , HS-LS2-6	ELA Standards: Writing (W): 2
Weather and Climate: HS-ESS2-4	ELA Standards: Speaking and Listening (SL): 1, 4
Reinforcement for Middle School: Structure, Function, and Information Processing: MS-LS1-3	ELA Standards: Reading for Literacy in Science and Technical Subjects (RST): 1, 2, 3, 4, 5, 9
Growth, Development, and Reproduction of Organisms: MS-LS1-5	ELA Standards: Writing Literacy in History/Social Studies and Science and Technical Subjects (WHST): 2
Weather and Climate: MS-ESS2-6	