



# The Science of Education: Back to School

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The Science of Education: Back to School by the Editors of Scientific American

Updated Edition. This eBook has been updated to include content from two special reports on education. Scientific American's popular "Learning in the Digital Age," is included almost in its entirety as the new Section 7 and analyzes the positive and negative effects of the digital revolution on education. In addition, two new articles from Scientific American Mind's report "The Science of Better Learning" are included in Section 2: "For the Love of Math" and "The Science of Handwriting." The first examines the benefits of guided-discovery programs like JUMP in teaching math, and the second discusses research that shows forming words by hand rather than typing may lead to longer-term memories. These and the rest of the articles in this collection explore how learning is a scientific process and offer the latest theories of education. Section 1, "The Lesson Plan," begins with how children learn and includes an eye-opening piece by Scientific American Editor Ingrid Wickelgren on how honing certain psychological skills not only enhances learning but also helps kids fight frustration and ward off stress. Other sections cover teaching the three Rs, the unique requirements of gifted children, controversies of class size, roles of parents and teachers and the imperative to improve science teaching. Individual articles delve into specific issues such as how a focus on intellect over effort can negatively affect potential, the role that errors play in retention, how physical activity boosts academic achievement, the effects of parents versus peer groups on behavior and much more. In this anthology, Scientific American has gathered some of its best reporting on the challenges, successes and the execution of a scientific approach to education. Together, they help construct a path for success for the next generation.

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