

THE NEED FOR NEW K-12 SCIENCE STANDARDS

State standards are the most important guideposts for K-12 science instruction in America's schools. There are many challenges in America's science education, including, but not limited to, our rankings are poor and current model science standards are low in content, lack clarity and are monopolized by one model standard.

America's most used science standards, the Next Generation Science Standards (NGSS), fails students. The report cited below, from April 2021, details how the popular curriculum omits basic tenets of science, including the scientific method, and provides recommendations to correct deficiencies in the NGSS.

<https://www.nas.org/reports/climbing-down/full-report>

THE PROBLEM:

- The U.S. spends the most on education, yet ranks **12th to 18th in science performance GLOBALLY**.
- Over **90% of U.S. states** are based on or heavily influenced by a single model standard **LOW IN CONTENT, HIGHLY-POLITICIZED, and LACKING CLARITY**.
- Professors indicate that **U.S. STUDENTS ARE UNPREPARED** for science in college.
- **CHINA** is posting better science performance at the top end.
- The majority of graduate science students are foreign-born and **NOT U.S. K-12 educated**.



RESTORING REAL SCIENCE

THE SOLUTION:

UTILIZE THE FRANKLIN STANDARDS AS THE BASIS FOR CHANGING SCIENCE STANDARDS.



THE FRANKLIN SCIENCE STANDARDS BENEFITS

- Rigorous **CONTENT-RICH** standards.
- Teaches and utilizes the **SCIENTIFIC METHOD** as a necessary tool for scientific discovery.
- Teaches **SUPPOSITIONS** and **LIMITATIONS** of science.
- **DEPOLITICIZED** content.
- Addition of new standards: **SCIENTIFIC INQUIRY, HISTORY OF SCIENCE, TECHNOLOGY and ENGINEERING**
- Teaches clear definitions and methods of **SCIENTIFIC REASONING**.
- Cultivates scientific **CURIOSITY** beginning in kindergarten.
- Allows for teacher **FLEXIBILITY** in pedagogy.
- **APPLICABILITY** to state public schools, individual districts, private schools, and homeschooling.
- Provides students with a **SOLID FOUNDATION** to engage with science as discerning citizens or pursue a science career.

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