Most states based their current K-12 science standards on reports dating back nearly twenty years! Since that time, we've made major advances in science and technology and gained a better understanding of how students learn these subjects.

**How can U.S. students receive a high-quality science education if states' standards are stuck in the '90s?**

To continue this progress and ensure our students can think critically and address 21st-century global challenges in manufacturing, medicine, technology, the environment and space exploration, we need modern science standards. That's why 26 states led the development of the Next Generation Science Standards (NGSS), a set of education benchmarks released in April 2013, establishing what K-12 students need to know and be able to do. As of November 2014, twelve states and the District of Columbia have adopted the NGSS.

**WANT TO GET A CLOSER LOOK AT HIGH-QUALITY SCIENCE STANDARDS? LEARN MORE HERE: NEXTGENSCIENCE.ORG**

**REFERENCES**

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- J. Craig Venter Institute, "First Self-Replicating Synthetic Bacterial Cell"
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- CERN, "The Higgs boson"
- Mashable, "Six Flags Unveils Tallest, Fastest and Steepest Wooden Roller Coaster"

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**SCIENCE EDUCATION NEEDS AN UPDATE**

**1995**
- **TEXT MESSAGING** becomes more widespread through "predictive" typing.

**1996**
- **DVDs CHANGE HOME ENTERTAINMENT WITH DIGITAL OPTICAL STORAGE.**

**1997**
- **TOYOTA UNVEILS PRIUS, THE FIRST HYBRID** on the market.
- **LASIK** Wavefront analysis makes corrective eye surgery more popular.

**1999**
- **ENDER'S MEASLES** are eliminated from the US.
- **APPLE RELEASES THE IPOD** An app was used to detect the first biological signals separated by nerve signals.

**2000**
- **HUMAN GENOME** Project is complete.
- **PLUTO** is reclassified as a dwarf planet.

**2001**
- French doctors perform the first successful **FACE TRANSPLANT.**
- **APPLE RELEASES THE IPOD** An app was used to detect the first biological signals separated by nerve signals.

**2003**
- **HUBBLE SPACE TELESCOPE OBSERVES FIRST PLANET OUTSIDE OF OUR SOLAR SYSTEM**

**2005**
- The first **SYNTHETIC GENOME** for a bacterial cell is created.
- **CECN DISCOVERS Higgs Boson.**

**2006**
- **PLUTO** is classified as an "outlaw planet."

**2008**
- **HUBBLE SPACE TELESCOPE OBSERVES FIRST PLANET OUTSIDE OF OUR SOLAR SYSTEM**

**2010**
- The first **SYNTHETIC GENOME** for a bacterial cell is created.

**2011**
- **IBM'S WATSON** wins Jeopardy!

**2012**
- **SIX FLAGS AMERICA'S GOLIATH** becomes the fastest wooden roller coaster in the world at 72 mph.

**2014**
- **ENDEMIC MEASLES** are eliminated from the US.
- **AN AMPUTEE USES THE FIRST ROBOTIC LIMBS OPERATED BY NERVE SIGNALS.**
- **IBM'S WATSON** wins Jeopardy!
- **SIX FLAGS AMERICA'S GOLIATH** becomes the fastest wooden roller coaster in the world at 72 mph.

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