

“Big Ideas in Geoscience” and NGSS alignments

Pertaining to

“The Hudson River—NYC’s Wettest Earth Science Teaching Tool”

“Big Ideas” in Geoscience

<https://www.americangeosciences.org/center-for-geo/ern/videos-or-animations/big-ideas-geoscience-videos>

- **Big Idea 1**

Earth scientists use repeatable observations and testable ideas to understand and explain our planet.

- **Big Idea 2**

Earth is 4.6 billion years old.

- **Big Idea 3**

Earth is a complex system of interacting rock, water, air, and life.

- **Big Idea 4**

Earth is continuously changing.

- **Big Idea 5**

Earth is the water planet.

- **Big Idea 6**

Life evolves on a dynamic Earth and continuously modifies Earth.

- **Big Idea 7**

Humans depend on Earth for resources.

- **Big Idea 8**

Natural hazards pose risks to humans.

- **Big Idea 9**

Humans significantly alter the Earth.

Selected NGSS DCIs

- ESS1C History of Planet Earth
- ESS2A Earth Materials and Systems
- ESS2C The Role of Water in Earth 's Surface Processes
- ESS2D Weather and Climate
- ESS2E Biogeology
- ESS3A Natural Resources
- ESS3B Natural Hazards
- ESS 3C Human Impacts on Earth Systems
- ESS3D Global Climate Change

- LS2B Cycle of Matter and Energy in Ecosystems
- LS2C Ecosystem Dynamics, Functioning, and Resilience

- PS1A Structure and Properties of Matter
- PS2A Forces and Motion
- PS2B Types of Interactions
- PS4A Wave Properties