

Common Core Learning Standards and the Next Generation Science Standards

Wave Hill's School Programs for K through 5th Grade support the Common Core Learning Standards and the Next Generation Science Standards.

A field trip to Wave Hill provides an immersive experience that supports classroom learning and addresses state and national standards. A focus on hands-on, inquiry-based instruction gives students opportunities to explore cross-cutting science concepts drawing on Wave Hill's own living collection. With 20 acres of gardens, eight acres of woodlands, and a dedicated education staff, Wave Hill helps students forge personal connections to the environment, bringing curriculum concepts to life. This multi-modal approach, coupled with rich, structured discussion for both the whole class and small groups supports the Common Core Anchor Standards and the Next Generation Science Standards.

Common Core Learning Standards and Wave Hill School Programs

All Wave Hill School Programs support the following Common Core Learning Standards:

College and Career Readiness Anchor Standards for Reading

Integration of Knowledge and Ideas

CCSS.ELA-LITERACY.CCRA.R.7

Integrate and evaluate content presented in diverse media and formats, including visually and quantitatively, as well as in words.

College and Career Readiness Anchor Standards for Speaking and Listening

Comprehension and Collaboration

CCSS.ELA-LITERACY.CCRA.SL.1

Prepare for and participate effectively in a range of conversations and collaborations with diverse partners, building on others' ideas and expressing their own clearly and persuasively.

CCSS.ELA-LITERACY.CCRA.SL.2

Integrate and evaluate information presented in diverse media and formats, including visually, quantitatively, and orally.

Next Generation Science Standards and Wave Hill School Programs

K-2 Crosscutting Concepts

These are supported by the following Wave Hill School programs: *A Walk for the Senses*, *Totally Trees*, *Avian Adventures*, *Buzz About Bees*, and *Seeds We Need*:

Patterns

- Patterns in the natural and human designed world can be observed, used to describe phenomena, and used as evidence.



- Objects and organisms can be described in terms of their parts.

Cause and Effect

- Events have causes that generate observable patterns.
- Simple tests can be designed to gather evidence to support or refute student ideas about causes.

Systems and System Models

- Systems in the natural and designed world have parts that work together.

3-5 Crosscutting Concepts

These are supported by the following Wave Hill School Programs: *Avian Adventures*, *Buzz About Bees*, *Patterns in Nature*, *Wacky Weather* and *Plants Through Time*:

Patterns

- Patterns in the natural and human designed world can be observed, used to describe phenomena, and used as evidence. Similarities and differences in patterns can be used to sort, classify, communicate and analyze simple rates of change for natural phenomena and designed products.
- Patterns of change can be used to make predictions.
- Patterns can be used as evidence to support an explanation.

Systems and System Models

- A system is a group of related parts that make up a whole and can carry out functions its individual parts cannot.
- A system can be described in terms of its components and their interactions.

Energy & Matter

- Energy can be transferred in various ways and between objects.
- Substructures have shapes and parts that serve functions.

Stability and Change

- Some systems appear stable, but over long periods of time will eventually change.

