

Connections to Standards

Across the K-5 spectrum, teachers can connect the ideas covered in these exhibits to a multitude of standards for teaching and learning.

All grade levels can focus in on the NGSS crosscutting concept of Scale, proportion, and quantity when visiting this exhibit. In turn, mathematical ideas around proportional reasoning both about the size and quantity of the microorganisms Hagen represents in her work. English-Language Arts connections come into play with this exhibit when children are able to articulate lessons learned as a result of careful observation of these artistic representations of microorganisms.

Similarly, the NGSS Disciplinary Core Ideas related to Human Impacts on Earth's Systems (ESS3) and Interdependent Relationships in Ecosystems (LS2) can be addressed through discussion of the objects in these pieces.

Mathematics Practices from the CCSS are also clearly addressed in these pieces, namely modeling with mathematics (M2) and constructing viable arguments and critique reasoning (M3).

All CCSS Portraits from English-Language Arts could be applied to lessons related to these pieces as well:

ELA capacities include:

E1. They demonstrate independence.

E2. They build strong content knowledge.

E3. They respond to the varying demands of audience, task, purpose, and discipline.

E4. They comprehend as well as critique.

E5. They value evidence.

E6. They use technology and digital media strategically and capably.

E7. They come to understanding other perspectives and cultures