

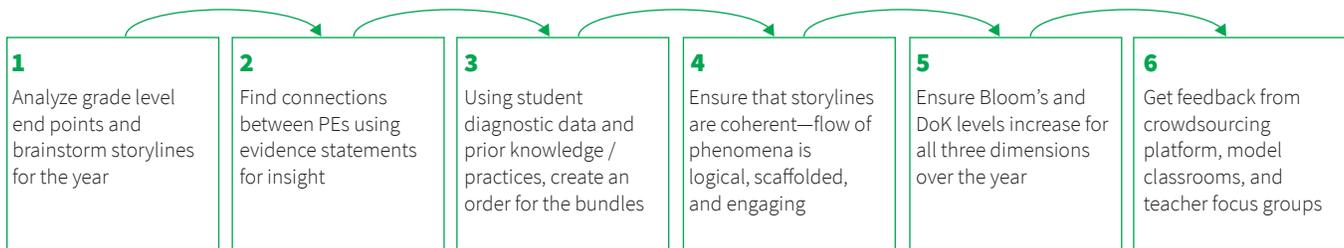
# TEACHING WITH BUNDLES



NGSS Performance Expectations were not designed to be taught in isolation; bundling them together helps students see connections between ideas, enhances phenomena-driven instruction, saves valuable planning time, and ensures that all PEs are given sufficient emphasis while having a coherent storyline. Bundles can be grouped by topic, DCI, and other creative approaches—there is no one correct way, other than involving student choice and having a culminating activity anchored with a central phenomenon that requires students to apply the 3D learning gained in the bundle’s constituent activities.

## Our Approach to Bundles

Providing teachers flexibility around bundling is a hallmark of NGSS alignment. STEMscopes NGSS 3D provides pre-made bundles based on a central anchoring phenomena, and also deconstructs them into individual scopes based on a core investigative phenomenon so that educators can work with students to create their own bundles.



Adapted from Achieve and NGSS. Learn more at <https://www.nextgenscience.org/sites/default/files/Example%20Bundles%20Guide.pdf>

## Sample Bundles in STEMscopes NGSS 3D

Bundle: Human Impact on Earth Systems		
<b>Anchoring Phenomena: What role does water play on our Earth, and what steps can be taken to conserve it?</b>		
PEs: 5-ESS2-1, 5-ESS2-2, 5-ESS3-1		
<b>SEPs:</b> Developing and Using Models, Using Mathematical and Computational Thinking, Obtaining, Evaluating, and Communicating Information	<b>DCIs:</b> Earth Materials and Systems, The Roles of Water in Earth’s Surface Processes, Human Impacts on Earth Systems	<b>CCCs:</b> System and System Models, Scale, Proportion, and Quantity
Scope: Earth’s Systems Interactions   Investigative Phenomena—What is the impact of a volcanic eruption?		
Scope: Water Sources   Investigative Phenomena—If three-fourths of Earth is covered in water, why are we worried about conserving it?		
Scope: Reducing Human Footprint   Investigative Phenomena—How do our actions affect the environment, and what can we do to reduce those effects?		