Next Generation Science Standards Crosscutting Concepts

All Grades

CC Patterns CCP1	**A Observed patterns in nature guide organization and classification and prompt questions about relationships and causes underlying them** CCP1A
CC Cause and Effect CCCE2	**A Events have causes, sometimes simple, sometimes multifaceted. Deciphering causal relationships, and the mechanisms by which they are mediated, is a major activity of science and engineering.** CCCE2A
CC Scale, Proportion, and Quantity CCSPQ3	**A In considering phenomena, it is critical to recognize what is relevant at different size, time, and energy scales, and to recognize proportional relationships between different quantities as scales change.** CCSPQ3A
CC System and Systems Models CCSSM4	**A A system is an organized group of related objects or components; models can be used for understanding and predicting the behavior of systems.** CCSSM4A
CC Energy and Matter CCEM5	**A Tracking energy and matter flows, into, out of, and within systems helps one understand their system's behavior.** CCEM5A
CC Structure and Function CCSF6	**A The way an object is shaped or structured determines many of its properties and functions.** CCSF6A
CC Stability and Change CCSC7	**A For both designed and natural systems, conditions that affect stability and factors that control rates of change are critical elements to consider and understand.** CCSC7A