

# All Grades

**CC Patterns** [CCP1](#)

**A** Observed patterns in nature guide organization and classification and prompt questions about relationships and causes underlying them [CCP1A](#)

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**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](#)

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**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](#)

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**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](#)

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**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](#)

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**CC Structure and Function** [CCSF6](#)

**A** The way an object is shaped or structured determines many of its properties and functions. [CCSF6A](#)

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**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](#)