

DCI Arrangements (Updated 2022)

From Molecules to Organisms: Structures and Processes numbers, and number systems.

LS.1

- a Structure and Function** LS.1.A
- b Growth and Development of Organisms** LS.1.B
- c Organization for Matter and Energy Flow in Organisms** LS.1.C
- d Information Processing** LS.1.D

Ecosystems: Interactions, Energy, and Dynamics

LS.2

- a Interdependent Relationships in Ecosystems** LS.2.A
- b Cycles of Matter and Energy Transfer in Ecosystems** LS.2.B
- c Ecosystem Dynamics, Functioning, and Resilience** LS.2.C
- d Social Interactions and Group Behavior** LS.2.D

Heredity: Inheritance and Variation of Traits

LS.3

- a Inheritance of Traits** LS.3.A
- b Variation of Traits** LS.3.B

Biological Evolution: Unity and Diversity

LS.4

- E Evidence of Common Ancestry and Diversity** LS.4.A
- a Natural Selection** LS.4.B
- b Adaptation** LS.4.C
- F Biodiversity and Humans** LS.4.D

Earth's Place in the Universe

ESS.1

- a The Universe and Its Stars** ESS.1.A
- b Earth and the Solar System** ESS.1.B
- c The History of Planet Earth** ESS.1.C

Earth's Systems

ESS.2

- a Earth Materials and Systems** ESS.2.A
- b Plate Tectonics and Large-Scale System Interactions** ESS.2.B

c The Roles of Water in Earth's Surface Processes ESS.2.C

d Weather and Climate ESS.2.D

e Biogeology ESS.2.E

Earth and Human Activity ESS.3

a Natural Resources ESS.3.A

b Natural Hazards ESS.3.B

c Human Impacts on Earth Systems ESS.3.C

d Global Climate Change ESS.3.D

Matter and Its Interactions PS.1

a Structure and Properties of Matter PS.1.A

b Chemical Reactions PS.1.B

c Nuclear Processes PS.1.C

Motion and Stability: Forces and Interactions PS.2

a Forces and Motion PS.2.A

b Types of Interactions PS.2.B

c Stability and Instability in Physical Systems PS.2.C

Energy PS.3

a Definitions of Energy PS.3.A

b Conservation of Energy and Energy Transfer PS.3.B

c Relationship Between Energy and Forces PS.3.C

d Energy in Chemical Processes and Everyday Life PS.3.D

Waves and Their Applications in Technologies for Information Transfer PS.4

a Wave Properties PS.4.A

b Electromagnetic Radiation PS.4.B

c Information Technologies and Instrumentation PS.4.C

Engineering Design ETS.1

a Defining and Delimiting an Engineering Problem ETS.1.A

b Developing Possible Solutions ETS.1.B

c Optimizing the Design Solution ETS.1.C
