

Component Idea	Scope	Performance Expectation (PE)	Disciplinary Core Idea (DCI)	Science and Engineering Practice(s) (SEP)	Crosscutting Concepts (CCC)
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## PS4 Waves and their Applications in Technologies for Information Transfer

Wave Properties	<b>Sound</b>	1-PS4-1	PS4.A	Planning and Carrying Out Investigations	Cause and Effect
Electromagnetic Radiation	<b>Behavior of Light</b>	1-PS4-2   1-PS4-3	PS4.B	Constructing Explanations and Designing Solutions	Cause and Effect
Information Technologies and Instrumentation	<b>Communication</b>	1-PS4-4	PS4.C	Constructing Explanations and Designing solutions	none



## LS1 From Molecules to Organisms: Structures and Processes

Structure and Function	<b>Parts of Animals</b>	1-LS1-1	LS1.A	Constructing Explanations and Designing solutions	Structure and Function
	<b>Parts of Plants</b>	1-LS1-1	LS1.A	Constructing Explanations and Designing solutions	Structure and Function
Growth and Development of Organisms	<b>Protecting the Young</b>	1-LS1-2	LS1.B	Obtaining, Evaluating, and Communicating Information	Patterns
Information Processing	<b>Animal Survival</b>	1-LS1-1	LS1.D	Constructing Explanations and Designing solutions	Structure and Function
	<b>Plant Survival</b>	1-LS1-1	LS1.D	Constructing Explanations and Designing solutions	Structure and Function



## LS3 Heredity: Inheritance and Variation of Traits

Inheritance of Traits	<b>Animal Trait Inheritance and Variation</b>	1-LS3-1	LS3.A   LS3.B	Constructing Explanations and Designing solutions	Patterns
	<b>Plant Trait Inheritance and Variation</b>	1-LS3-1	LS3.A   LS3.B	Constructing Explanations and Designing solutions	Patterns

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## ESS1 Earth's Place in the Universe

The Universe and its Stars	<b>Patterns in Space</b>	1-ESS1-1	ESS1.A	Analyzing and Interpreting Data	Patterns
Earth and the Solar System	<b>Seasonal Patterns</b>	1-ESS1-2	ESS1.B	Planning and Carrying out Investigations	Patterns