

Comparison of Arizona's Science Standard to the Disciplinary Core Ideas

2004 Arizona Science Standard	A Framework for K-12 Science Education
Strand 4 - Life Science (K-4)	
Characteristics of Organisms	From Molecules to Organisms: Structures and Processes
Life Cycles (Heredity)	Heredity: Inheritance and Variation of Traits
Organisms and Environments	Ecosystems: Interactions, Energy, and Dynamics
Diversity, Adaptation, and Behavior	Biological Evolution: Unity and Diversity
Strand 5 - Physical Science (K-4)	
Properties of Objects and Materials (Matter)	Matter and Its Interactions
Position and Motion of Objects (Forces)	Motion and Stability: Forces and Interactions
Energy and Magnetism	Energy
	Waves and Their Applications in Technologies for Information Transfer
Strand 6 - Earth and Space Science (K-4)	
Properties of Materials	Earth's Systems
Objects in the Sky	Earth's Place in the Universe
Changes in the Earth and Sky	
Strand 3 – Changes in Environments	Earth and Human Activity

2004 Arizona Science Standard	A Framework for K-12 Science Education
Strand 4 - Life Science (5-8)	
Structure and Function in Living Systems	From Molecules to Organisms: Structures and Processes
Reproduction and Heredity	Heredity: Inheritance and Variation of Traits
Populations of Organisms in an Ecosystem	Ecosystems: Interactions, Energy, and Dynamics
Diversity, Adaptation, and Behavior	Biological Evolution: Unity and Diversity
Strand 5 - Physical Science (5-8)	
Properties and Changes of Properties in Matter	Matter and Its Interactions
Motion and Forces	Motion and Stability: Forces and Interactions
Transfer of Energy	Energy
	Waves and Their Applications in Technologies for Information Transfer
Strand 6 - Earth and Space Science (5-8)	
Structure of the Earth	Earth's Systems
Earth's Processes and Systems	
Earth in the Solar System	Earth's Place in the Universe
Strand 3 – Changes in Environments	Earth and Human Activity

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Strand 4 - Life Science (HS)	
The Cell	From Molecules to Organisms: Structures and Processes
Matter, Energy and Organization in Living Systems	
Molecular Basis of Heredity	Heredity: Inheritance and Variation of Traits
Interdependence of Organisms	Ecosystems: Interactions, Energy, and Dynamics
Strand 3 – Human Population Characteristics	
Biological Evolution	Biological Evolution: Unity and Diversity
Strand 5 - Physical Science (HS)	
Structure and Properties of Matter	Matter and Its Interactions
Chemical Reactions	
Interactions of Energy and Matter	
Conservation of Energy and Increase in Disorder	Energy
	Waves and Their Applications in Technologies for Information Transfer
Motion and Forces	Motion and Stability: Forces and Interactions
Strand 6 - Earth and Space Science (HS)	
Geochemical Cycles	Earth's Systems
Energy in the Earth System (Both Internal and External)	
Origin and Evolution of the Earth System	Earth's Place in the Universe
Origin and Evolution of the Universe	
Strand 3 – Changes in Environments	Earth and Human Activity

These charts show how the current concepts from [Arizona's State Standard](#) are arranged in comparison to the Core and Competent Ideas in the [Framework](#) for each of the three core content areas. Each chart reflects a different grade band and the concepts addressed within each band. Some of the concepts are grouped together to represent the collection of ideas as they align between the two documents.