



**Alignment Document**  
**State of Wisconsin**  
**And**  
**Aventa Learning Environmental Science**

**Environmental Science**  
 2005-2007 Benchmark Blueprint

State Standard Number	State Standard Area / Description	Unit Name	Course Topic Description
F.12	Life and Environmental Science		
0	The Cell		
F.12.1	Evaluate the normal structures and the general and special functions of cells in single-celled and multiple-celled organisms		
F.12.2	Understand how cells differentiate and how cells are regulated		
0	The Molecular Basis of Heredity		
F.12.3	Explain current scientific ideas and information about the molecular and genetic basis of heredity		
F.12.4	State the relationships between functions of the cell and functions of the organism as related to genetics and heredity		
0	Biological Evolution		
F.12.5	Understand the theory of evolution, natural selection, and biological classification	Ecology	The Organization of Life
F.12.6	Using concepts of evolution and heredity, account for changes in species and the diversity of species, include the influence of these changes on science, e.g. breeding of plants or animals	Ecology	The Organization of Life
0	The Interdependence of Organisms		
F.12.7	Investigate how organisms both cooperate and compete in ecosystems	Ecology	How Ecosystems Work
F.12.8	Using the science themes, infer changes in ecosystems prompted by	Ecology	How Ecosystems Work

	the introduction of new species, environmental conditions, chemicals, and air, water, or earth pollution		
0	Matter, Energy and Organization in Living Systems		
F.12.9	Using the science themes, investigate energy systems (related to food chains) to show how energy is stored in food (plants and animals) and how energy is released by digestion and metabolism	Ecology	How Ecosystems Work
F.12.10	Understand the impact of energy on organisms in living systems	Ecology	How Ecosystems Work
F.12.11	Investigate how the complexity and organization of organisms accommodates the need for obtaining, transforming, transporting, releasing, and eliminating the matter and energy used to sustain an organism		
0	The Behavior of Organisms		
F.12.12	Trace how the sensory and nervous systems of various organisms react to the internal and external environment and transmit survival or learning stimuli to cause changes in behavior or responses		