

School Name: Badger High School
Course Name: Animal Science and Aquaculture (180 days—1 year)
Course Instructor: Larry Plapp
Date: 4/22/2008

Lesson Number and Title		WI Ag Ed Standards	WI Model Academic Standards
Recognizing the Role of Agriculture in Society—2 days			
LC: A2-2	Understanding the Importance of Agriculture to Society	AE:A12.1, AE:A12.2, AE:A12.3	SS:B12.3, SS:B12.4, SS:B12.10
Food Science Relationships to Animal Science—7 days			
LC: C11-1	Exploring Food Science and Its Benefits	AE:B12.1, AE:B12.5	Sci:A12.5, Sci:B12.1, Sci:B12.3, Sci:B12.4
LC: C11-2	Exploring Food Preservation	AE:B12.1, AE:B12.5	Sci:A12.5, Sci:B12.1, Sci:B12.3, Sci:B12.4
Understanding Cells, Genetics, and Reproduction—12 days			
LC: C3-1	Exploring Cells	AE:B12.4	Sci:F12.1, Sci:F12.2, Sci:F12.3, Sci:F12.4
LC: C3-3	Examining Mitosis and Meiosis	AE:B12.4	Sci:F12.1, Sci:F12.2, Sci:F12.3, Sci:F12.4
LC: C3-4	Using Crossbreeding and Hybrids	AE:B12.4	Sci:F12.1, Sci:F12.2, Sci:F12.3, Sci:F12.4
Identifying Basic Principles in Animal Science—6 days			
LC: C5-1	Identifying Differences Between Plants and Animals	AE:D12.1, AE:D12.3, AE:D12.4, AE:D12.6	Sci:F12.4, Sci:F12.5, Sci:F12.7, Sci:F12.9, Sci:F12.11
LC: C5-4	Understanding Blood	AE:D12.6	Sci:F12.9, Sci:F12.11
LC: C5-5	Understanding Animal Life Span	AE:D12.6	Sci:F12.4, Sci:F12.6, Sci:F12.9, Sci:F12.11
LC: C5-6	Exploring the Animal Industry	AE:D12.1, AE:D12.3, AE:D12.4	Sci:G12.1
Scientific Investigation in Agriculture—12 days			
LC: A1-2	Conducting Agricultural and Science Research	AE:B12.2	Sci:B12.1, Sci:B12.4
LC: C2-3	Using the Microscope	AE:B12.1	Sci:C12.2, Sci:C12.4
LC: A1-1	Exploring Research Methods in Agriculture and Science	AE:B12.1	ELA:F12.1, Sci:A12.3, Sci:A12.4, Sci:B12.1, Sci:B12.4, Sci:C12.1, Sci:C12.2, Sci:C12.3, Sci:C12.4, Sci:C12.5
LC: A1-2	Designing and Conducting Agricultural Research	AE:B12.1	ELA:F12.1, MA:B12.6, Sci:A12.7, Sci:B12.4, Sci:C12.1, Sci:C12.2, Sci:C12.3, Sci:C12.4, Sci:C12.5
LC: A1-3	Using Scientific Measurement	AE:B12.1	MA:B12.6, MA:D12.1, MA:D12.2, MA:D12.3, Sci:C12.2, Sci:C12.4
LC: A1-4	Reporting Agriculture Research	AE:B12.1	ELA:F12.1, MA:B12.6

			Sci:B12.1, Sci:B12.4, Sci:C12.6, Sci:C12.7, Sci:H12.6, Sci:H12.7
LC: A1-6	Tools and Equipment in the Laboratory	AE:B12.1	Sci:C12.2, Sci:C12.4
LC: C2-1	Practicing Safety in the Lab	AE:B12.1	Sci:C12.2, Sci:C12.4
LC: C2-2	Identifying Agriscience Lab Tools	AE:B12.1	Sci:C12.2, Sci:C12.4
Understanding the Animal Science Industry—5 days			
LC: B1-1	Analyzing Present and Future Trends in Animal Science Industry	AE:A12.2	SS:D12.3, SS:D12.4
LC: B1-2	Discovering Ways Animals Help People	AE:A12.2	SS:E12.16
LC: B1-3	Identifying Career Opportunities in the Animal Science Industry	AE:D12.4	SS:D12.3, SS:D12.4
Identifying and Understanding the Segments of the Animal Science Industry—80 days			
LC: B2-1	Exploring the Beef Industry	AE:D12.1, AE:D12.4, AE:D12.6	Sci:F12.6, Sci:F12.8, Sci:F12.9, Sci:F12.11, Sci:F12.12
LC: B2-2	Exploring the Dairy Industry	AE:D12.1, AE:D12.4, AE:D12.6	Sci:F12.6, Sci:F12.8, Sci:F12.9, Sci:F12.11, Sci:F12.12
LC: B2-3	Exploring the Swine Industry	AE:D12.1, AE:D12.4, AE:D12.6	Sci:F12.6, Sci:F12.8, Sci:F12.9, Sci:F12.11, Sci:F12.12
LC: B2-4	Exploring the Sheep and Goat Industry	AE:D12.1, AE:D12.4, AE:D12.6	Sci:F12.6, Sci:F12.8, Sci:F12.9, Sci:F12.11, Sci:F12.12
LC: B2-5	Exploring the Equine Industry	AE:D12.1, AE:D12.4, AE:D12.6	Sci:F12.6, Sci:F12.8, Sci:F12.9, Sci:F12.11, Sci:F12.12
LC: B2-6	Exploring the Poultry Industry	AE:D12.1, AE:D12.4, AE:D12.6	Sci:F12.6, Sci:F12.8, Sci:F12.9, Sci:F12.11, Sci:F12.12
LC: B2-12	Exploring the Aquaculture Industry	AE:D12.1, AE:D12.4, AE:D12.6	Sci:F12.6, Sci:F12.8, Sci:F12.9, Sci:F12.11, Sci:F12.12
LC: B2-14	Exploring Other Animals	AE:D12.1, AE:D12.4, AE:D12.6	Sci:F12.6, Sci:F12.8, Sci:F12.9, Sci:F12.11, Sci:F12.12
Meeting Nutritional Needs of Animals—12 days			
LC: B3-1	Meeting the Nutritional Needs of Animals	AE:D12.4	Sci:F12.9, Sci:F12.10, Sci:F12.11
LC: B3-2	Understanding Animal Digestion	AE:D12.4	Sci:F12.9, Sci:F12.10, Sci:F12.11
LC: B3-3	Understanding Nutrients and Their Importance	AE:D12.4	Sci:F12.9, Sci:F12.10, Sci:F12.11
LC: B3-4	Balancing Rations	AE:D12.4	Sci:F12.9, Sci:F12.10, Sci:F12.11
Understanding the Animal Reproduction –12 days			
LC: B4-1	Anatomy and Physiology of Animal Reproductive Systems	AE:D12.4	Sci:F12.5, Sci:F12.6
LC: B4-2	Understanding Natural Animal Reproduction	AE:D12.4	Sci:F12.5, Sci:F12.6
LC: B4-3	Understanding Animal Reproduction Technology	AE:D12.6	Sci:G12.3
LC: B4-4	Understanding Basic Genetics	AE:D12.4	Sci:F12.6
Maintaining Animal Health—8 days			

LC: B5-2	Managing Animal Health	AE:D12.4	Sci:G12.3
Fish Management—12 days			
LC: C3-1	Exploring the Aquaculture Industry	AE:D12.1	Sci:F12.8
LC: C3-2	Understanding the Environmental Requirements for Fish	AE:D12.4, AE:D12.6	Sci:F12.8
LC: C3-3	Describing Nutritional Requirements of Fish	AE:D12.4, AE:D12.6	Sci:F12.9, Sci:F12.10
LC: C3-4	Identifying Fish Digestion and Feeding	AE:D12.4, AE:D12.6	Sci:F12.9, Sci:F12.10
LC: C3-5	Propagating and Selling Fish	AE:D12.4, AE:D12.6, AE:F12.3	Sci:F12.6
LC: C3-7	Diagnosing Fish Diseases	AE:D12.4, AE:D12.6	Sci:F12.8
Animal Genetics and Biotechnology—12 days			
LC: B1-3	Biotechnology	AE:B12.4, AE:D12.3, AE:D12.5, AE:D12.6, AE:E12.1	Sci:F12.1, Sci:F12.2, Sci:F12.3, Sci:F12.4, Sci:F12.6, SS:E12.9
LC: A7-1	Determining the Nature of Biotechnology	AE:B12.1, AE:B12.4, AE:B12.5, AE:D12.5	Sci:B12.1, Sci:B12.2, Sci:B12.3, Sci:B12.4, Sci:B12.5
LC: A7-2	Understanding the Basis for Biotechnology Research	AE:B12.1, AE:B12.4, AE:B12.5, AE:D12.5	Sci:B12.1, Sci:B12.2, Sci:B12.3, Sci:B12.4, Sci:B12.5
LC: A7-3	Recognizing the Agricultural Applications of Biotechnology	AE:B12.1, AE:B12.4, AE:B12.5, AE:D12.5	Sci:B12.1, Sci:B12.2, Sci:B12.3, Sci:B12.4, Sci:B12.5
LC: A7-4	Determining Future Impacts of and Concerns Brought About by Agricultural Biotechnology Research	AE:B12.1, AE:B12.4, AE:B12.5, AE:D12.5	Sci:G12.1, Sci:G12.3, Sci:G12.4
LC: B4-5	Understanding Molecular Biotechnology	AE:D12.5, AE:D12.6	Sci:G12.3
LC: B4-6	Understanding Organismic Biotechnology	AE:D12.5, AE:D12.6	Sci:G12.3