

Standards Based Assessment and Grading Veterinarian Science

Unit	Students should know	Students should be able to do	Assessment
Animal Cell Biology (8 days)	✓ Structures and functions of cells	<ul style="list-style-type: none"> ✓ Identify the structures and functions of an animal cell ✓ Describe the similarities and differences between plant and animal cells 	<ul style="list-style-type: none"> ✓ “What Am I?” Game ✓ Cell Biology Chart ✓ Cell Biology Quiz
Directional Terminology (2 days)	✓ Proper directional terms	✓ Identify the terms used to designate directions when conversing about animals	<ul style="list-style-type: none"> ✓ Class “Simon Says” type-activity to demonstrate & show different parts ✓ Directional terms labeling ✓ Directional terms worksheet ✓ Directional terms quiz ✓ Surface planes worksheet ✓ Gummi bear dissection
Anatomy & Physiology (29 days)	✓ Parts of animal systems and their functions	<ul style="list-style-type: none"> ✓ Understand how the organs and systems of an animal work together to keep the animal healthy ✓ Describe the structures and functions of the skeletal system <ul style="list-style-type: none"> ○ Locate the major bones in an animal ○ Identify the parts of a bone ○ Describe different types of fractures and their severity ✓ Describe the structures and functions of the muscular system <ul style="list-style-type: none"> ○ Locate the major muscles in an animal’s body ✓ Describe the structures and functions of the circulatory system <ul style="list-style-type: none"> ○ Locate the parts of the heart ○ Follow the flow of blood through an animal’s body ○ Identify the components of 	<ul style="list-style-type: none"> ✓ Bone ID Quiz ✓ Skeletal System worksheet ✓ Skeletal system match dog to human ✓ Skeletal system worksheet quiz ✓ Skeletal system Quiz ✓ Muscular System Quiz ✓ Digestive System Travel Guide ✓ Nervous, Urinary, and Endocrine system scenarios ✓ Reproductive System Quiz ✓ Animal Dissection

		<ul style="list-style-type: none"> blood <ul style="list-style-type: none"> ○ Describe problems that can occur in the circulatory system of an animal ✓ Describe the structures and functions of the respiratory system <ul style="list-style-type: none"> ○ Identify the parts of the respiratory system ○ Understand the mechanisms of breathing ○ Describe the ailments common to the respiratory systems of animals ✓ Describe the structures and functions of the digestive system <ul style="list-style-type: none"> ○ Explain the differences and similarities between the different types of digestive systems ○ Understand the path of food and nutrients through an animal's body ✓ Describe the structures and functions of the nervous system <ul style="list-style-type: none"> ○ Identify the "types" of nervous systems ○ Describe the functions of the different parts of the nervous system ○ Understand how the nervous system controls the body of an animal ✓ Describe the structures and functions of the urinary system ✓ Describe the structures and functions of the endocrine system <ul style="list-style-type: none"> ○ Understand the effect of 	
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		<p>hormone levels on animal health and productivity</p> <ul style="list-style-type: none">✓ Describe the structures and functions of the reproductive system<ul style="list-style-type: none">○ Identify the terms used for animals in different stages of their reproductive life✓ Perform a dissection in order to locate and identify the various organs and systems	
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Animal Health, Normal Animal Behavior, & Health Maintenance (12 days)	<ul style="list-style-type: none"> ✓ Signs and symptoms of abnormal animal behaviors and how to correct/maintain 	<ul style="list-style-type: none"> ✓ Identify a variety of practices used to keep animals healthy ✓ Understand the importance of animal vaccinations ✓ Identify the proper method for administering injections to animals ✓ Take animal vital signs ✓ Observe and record animal behavior ✓ Recognize abnormal animal behavior ✓ Identify animal behaviors that can signal danger ✓ Demonstrate proper care for animals in various stages of growth and development ✓ Explain proper care for a variety of species 	<ul style="list-style-type: none"> ✓ (Animal Care) Care for a variety of animals in the animal lab throughout the semester (feed, water, clean) <ul style="list-style-type: none"> ○ Newborn ○ Young ○ “parents” ○ Older ✓ Vital Signs Lab ✓ Vital signs worksheet ✓ Animal Observation Log ✓ Injection Lab (technique) ✓ Write a defense about the why injections should/should not be used
Diseases, Pests, and Parasites (15 days)	<ul style="list-style-type: none"> ✓ Common animal diseases, preventions, and treatment 	<ul style="list-style-type: none"> ✓ Identify the signs/symptoms of a variety of common diseases, pests, parasites ✓ Describe the causes and effects of common diseases, pests, and parasites ✓ Explain treatment options for a variety of common diseases, pests, and parasites ✓ Understand and explain the ways to prevent a variety of common diseases, pests, and parasites in animals 	<ul style="list-style-type: none"> ✓ Problem-solve scenarios to determine possible causes of a variety of symptoms ✓ Presentation of an animal disease ✓ Presentation of a pest or parasite
First Aid (15 days)	<ul style="list-style-type: none"> ✓ Basic first aid for an animal 	<ul style="list-style-type: none"> ✓ Demonstrate six common suture patterns used in animal first aid ✓ Successfully administer basic first aid to variety of animals 	<ul style="list-style-type: none"> ✓ Suture Lab – (stuffed animal/raw chicken) ✓ Bandaging Lab

		<ul style="list-style-type: none"> ✓ Understand the difference home first aid and vet administered first aid 	
Animal Rights vs Animal Welfare (2 days)	<ul style="list-style-type: none"> ✓ Fundamental differences between animal rights and animal welfare 	<ul style="list-style-type: none"> ✓ Explain the difference between animal rights and animal welfare ✓ Describe the effect of animal rights and animal welfare on society and the agriculture industry 	<ul style="list-style-type: none"> ✓ Debate

Unit	Students should know/be able to do	Assessment
Genetics (4 days)	<ul style="list-style-type: none">✓ Describe procedures used on animals to affect their genetics, or the genetics of their offspring✓ Determine genetic probability	<ul style="list-style-type: none">✓ Presentation on method of animal reproduction that influences genetics
Career Exploration in Vet Science (3 days)	<ul style="list-style-type: none">✓ List careers related to veterinary medicine✓ Describe the impact of careers in veterinary medicine	<ul style="list-style-type: none">✓ Create a poster of a career in the veterinary science field