

Completed Leader's

Idaho 4-H Animal Science Lesson Program Checklist

Member's Name:	4-H Club:
Indicate the years (i.e. 2019, 2020, 2021) enrolled in the p	project below:
	cill-based objectives to guide and encourage 4-H members in gaining a y. These skills are in addition to the basic Idaho 4-H project
 Choose your project animal(s) Individually identify each animal (ear tag, etc.) Complete project record & involvement report Exhibit project animal(s) in quality/showmanship 	 Provide positive proof of ownership based of required days Weigh & give primary care during county feed period (market only) Give oral presentation related to this project Complete any other County-based requirements

All individuals (regardless of age) should begin with Level 1. Youth must complete at least 5 skills/year; at least one of these must be a Quality Assurance [QA] noted activity. The lesson title from where the skill will be learned is in **Bold letters**. A minimum of 15 different skills should be completed before advancing to the next level. Older youth just entering the (species) project are encouraged to move through Levels 1 and 2 at an accelerated rate to enhance their overall 4-H career learning experience. {Note: Submit this updated checklist annually with your animal project record book.}

- Complete Permanent Individual Animal Record – one/animal (breeding only)

LEVEL 1 SKILLS	Completed (mm/dd/yy)	Leader's Initials
Describe the reason to provide livestock bedding for your animal		
Environment: Caring for My Animal		
Describe the basic facilities (housing, pen space & equipment) needed to safely raise your project animal(s)		
Housing My Animal		
Demonstrate how knowing the flight zone of an animal can help you be safe when working with an animal		
Safe Animal Handling		
Describe how temperature and air flow can affect the performance and health of an animal		
Temperature & Ventilation in the Barn		
Develop a basic (species) project plan (including income, expenses and facilities)		
What's Your Plan		
Identify at least 5 breeds within your project species		
Common Livestock Breeds and Characteristics		
Identify at least 20 parts of the animal within your project species		
Evaluation		
Estimate what the market weight or frame size of your animal should be by the county fair		
Frame Size and Market-Ready weights		
Describe the importance of raising a structurally correct animal		
Structural Conformation		
Describe the following animal selection traits: muscling, trimness, growth & frame, structure & balance		
and why they are important - Common Breeds and Characteristics or Evaluation		
Define why reproduction is important in raising livestock		
Introduction to Reproduction		
List 5 basic classifications of nutrients		
Five Basic Nutrients		
Describe Average Daily Gain		
Average Daily Gain		
Explain why it is important to have a fresh, clean source of water		
Basic Nutritional Requirements - Ruminant		
Explain the difference between a roughage, concentrate and supplement		
Basic Nutritional Requirements - Ruminant		
Explain the purpose of a feed label		
Feed Labels		
Define a monogastric animal		
Monogastric Nutrition		





	LEVEL 1 SKILLS (continued)	Completed (mm/dd/yy)	Leader's Initials
	List the two types of digestive systems found in most domestic farm animals		
	Basic Nutritional Requirements – Ruminant and Monogastric Nutrition		
	Describe at least 5 symptoms/behaviors of a healthy animal		
	What Does a Healthy Animal Look Like?		
	Describe where injections should be given on your animal		
	Injection Sites and Techniques		
	List three things you can learn from a medication label		
	Reading Medication Labels		
	List 3 things you can do to prevent your animal from getting diseases Preventable Practices		
	Tell why recordkeeping is important in disease prevention		
	Animal Record Keeping for Disease Prevention		
	Explain how a veterinarian can help you keep your animal healthy		
	Veterinary Client Relationships		
	Prepare a list of livestock equipment & supplies needed at a Fair		
	Equipment		
	Describe what you will need to do to be ready to show your animal		
	Getting Ready for the Show		
	Make a list of products that can be used to groom your animal		
	Grooming Beef		
	List some of the steps to halter break or gentle your animal		
	Halter Breaking and Gentling		
	Watch a Showmanship video and demonstrate proper showmanship techniques		
	Showmanship		
	Make a list of animal science related careers		
	Career Exploration		
	Describe how to properly care for your animal at the fair		
	Connecting with the Public through a Positive Image		
	Explain the importance of knowing where food comes from		
	Where Our Food Comes From		
	Prepare a thank you card to be used to thank a sponsor		
	Thank You Letters		
	Discuss why you need to know how much it costs to raises an animal in 4-H		
	Making a Plan – Costs to Raise Market Animals		
(QA)	Describe an animal by-product		
(ω, ι,	Animal By-Products		
(QA)	Describe 2 things you can do to properly handle your animal		
(47)	Animal Welfare – Handling		
(QA)	Describe Biosecurity		
(QA)	Biosecurity		
(04)	Conduct a safety evaluation of your livestock facilities; report any changes needed/made to promote		
(QA)	animal well-being - Biosecurity		
[04]	Explain good character and ethics		
[QA]	Explain good character and ethics Ethics: Pillars of Character		
(0.6)			1
(QA)	Define sportsmanship have to do with raising and showing livestock Ethics: Sportsmanship		
(QA)	Tell the difference between wholesale and retail cuts of meat		
	Recognizing Wholesale and Retail Cuts		
(QA)	Describe what Quality Assurance means to you		_
	What is Quality Assurance?		





LEVEL 2 SKILLS	Completed (mm/dd/yy)	Leader's Initials
Explain impact of temperature extremes (hot & cold), wind and humidity on livestock performance Environment: Caring for My Animal		
Identify at least 3 problems created by insufficient air circulation within livestock facilities.		
Temperature and Ventilation (Air Flow) in the Barn		
Explain the impact frame size can have on the final weight of your animal		
Frame Size and Market Ready Weights		
List 5 things to consider when selecting a project animal		
Project Animal Selection		
Tell the importance of skeletal structure in animal selection		
Skeletal Structure		
Evaluate, rank and give reasons on a class of four animals		
Livestock Judging, Note Taking and Oral Reasons		
Participate in a Livestock Judging activity or contest		
Livestock Judging, Note Taking and Oral Reasons		
List 3 major parts of the male reproductive system		
Parts of Reproductive Systems		
Describe the difference between a dominant and recessive gene		
Genetics		
Define the following terms: purebred, crossbred, heredity		
Purebred vs. Crossbred		
Explain what a crossbreeding program is and why would it be used		
Purebred vs. Crossbred		
Identify heat detection methods used for your species of animal		
Heat Detection		
Describe when the breeding season should be for the species of animal you are raising		
When will My Livestock Project Animal Be Born?		
Describe the different nutritional needs of a monogastric and a ruminant animal		
Basic Nutritional Requirements – Ruminant and Monogastric Nutrition		
List at least 7 pieces of information found on a feed tag		
Feed Labels		
Describe the difference between a "caution" and "warning" on a feed tag Feed Labels		
Demonstrate how to calculate average daily gain Average Daily Gain		
Describe why a ruminant animal can breakdown and utilize more complex feeds		
Digestive Systems		
Describe a valid Veterinary-Client-Patient relationship		
Veterinary Client Relationships		
List 6 things you can that would help to keep your animal healthy Preventable Practices		
Explain the difference between a vaccination and a medication		
Injection Sites and Techniques		
List at least 3 external parasites common to your animal and describe how to treat for them External Parasites		
Describe castration, dehorning and docking Castration, Dehorning and Docking		
Describe the reproductive difference in a castrated male		
Castration, Dehorning and Docking		
Define medication withdrawal time and describe why it is important to follow medication withdrawal		
times – Reading Medication Labels		
Demonstrate proper grooming and showmanship techniques for younger members in your group		
From Showring Level 1 Lessons Describe where our food comes from to a friend or an adult		
Where Our Food Comes from to a friend or an adult Where Our Food Comes From		
Describe or give a demonstration on an agriculture career you are interested in		
Career Exploration		





	LEVEL 2 SKILLS (continued)	Completed (mm/dd/yy)	Leader's Initials
	Demonstrate how to invite buyers to the market animal sale		
	Inviting Buyers to the Market Animal Sale		
	Describe the animal identification options for your species		
	Animal Identification		
	Describe the difference between a bill of sale, receipt and brand inspection		
	Livestock Ownership Records		
(QA)	Describe the term "flight zone" and how you can determine your animal's point of balance		
	Animal Welfare - Moving		
(QA)	List the applicable USDA Quality Grades or USDA Grades for your species		
(- ,	Ideal Market Animal		
(QA)	Describe the industry standards for your species of animal		
	Ideal Market Animal		
(QA)	List 10 examples of by-products derived from your species of animal		
	Animal By-products		
(QA)	Describe 5 carcass terms that relate to your animal project		
,	Carcass Terminology		
(QA)	Create a Biosecurity plan for your livestock project		
	Biosecurity		
(QA)	Name the six pillars of characters		
•	Pillars of Character		
[QA]	Describe unethical behavior and why it's not acceptable in 4-H		
-	Consequences of Unethical Behavior		

LEVEL 3 SKILLS	Completed (mm/dd/yy)	Leader's Initials
Explain why structural soundness is critical in both breeding and market animals; list 5 common structu	ıral	
defects within your species – Structural Conformation		
Explain the roles of estrogen, FSH, LH and progesterone in male & female reproductive physiology		
Hormones		
Define heritability and how it is used in breeding management decisions		
Expected Progeny Differences (EPD's)		
Identify the parts of the female reproductive tract for the species you are raising		
Parts of the Reproductive System		
Describe the impact using artificial insemination could have in a livestock operation		
Artificial Insemination		
Describe why a producer would want to use embryo transfer in their herd or flock		
Embryo Transfer		
Describe difference between fat-soluble and water-soluble vitamins; list the 4 fat-soluble vitamins		
5 Basic Nutrients		
Name in order the four compartments within the ruminant stomach; explain how roughages are broken	n	
down within that system – Digestive Systems		
Describe the role body condition scores play in animal production		
Body Condition Scores		
Determine how much it will cost to feed your project animal		
Nutrition Budgets		
Name at least 8 items that should be listed on an animal treatment record		
Animal Recordkeeping for Disease Prevention		
Describe the impacts that parasites can have on animal production		
Internal Parasites		
Track weekly market prices for US No 1 hogs, choice lambs or choice/yield grade 3 steers. Plot this		
information on a graph.		
Create a YouTube video to promote your animal project for sale		
Inviting Buyers to the Market Animal Sale		
Give a marketing/sales presentation (including buyer recruitment, appropriate thank you notes, etc.) at club/project meeting	t a	





	LEVEL 3 SKILLS (continued)	Completed (mm/dd/yy)	Leader's Initials
	Prepare/give a 7-10 minute presentation on nutrition at your club or group meeting		
	Prepare/give a 7-10 minute presentation on health care at your club or group meeting		
	Prepare/give a 7-10 minute presentation on genetics at your club or group meeting		
	Prepare/give a 7-10 minute presentation on related career opportunities at your club or group meeting		
	Prepare/give a 7-10 minute presentation on reproduction at your club or group meeting		
(QA)	Describe the steps you would take to safely haul your animal project		
	Animal Welfare - Hauling		
(QA)	Determine ribeye area or loin eye area and fat thickness using a picture of the meat or the actual meat		
	cut. Share the results with your club – Carcass Measurements		
(QA)	Explain how the USDA Quality and/or Yield Grades for your species are determined.		
	Quality and Yield Grade		
(QA)	Identify 4 examples of unethical behavior; explain why each is wrong and what you think the		
	consequences should be for someone doing that – Consequences of Unethical Behavior		
(QA)	Prepare/give a 7-10 minutes presentation on wholesale cuts of meat for your project animal species		
[QA]	Prepare/give a 7-10 minute presentation on meat quality at your club or group meeting		
[QA]	Prepare/give a 7-10 minute presentation on quality assurance practices at your club or group meeting		
(QA)	Prepare/give a 7-10 minute presentation on ethics education at your club or group meeting		