

Idaho 4-H Animal Science Lesson Program Checklist

Member's Name:	4-H Club:
Indicate the years (i.e. 2015, 2016, 2017) enrolled in the	project below:
	kill-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. 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		Completed (mm/dd/yy)	Leader's Initials
	Describe the basic facilities (housing, pen space & equipment) needed to safely raise your project animal(s)		
	Develop a basic (species) project plan (including income, expenses and facilities)		
	Describe the reason to provide livestock bedding for your animal		
	Identify at least 10 breeds within your project species		
	Identify at least 20 parts of the animal within your project species		
	Define the following terms: purebred, crossbred, conformation, carcass		
	Describe the following animal selection traits: muscling, trimness, growth & frame, structure & balance		
	and why they are important.		
	Explain the difference between a roughage, concentrate and supplement.		
	List the six basic classifications of nutrients		
	Explain why it is important to have a fresh, clean source of water.		
	Explain the purpose of a feed label.		
	List the two types of digestive systems found in most domestic farm animals.		
	Describe what average daily gain and feed efficiency are.		
	Describe at least 5 symptoms/behaviors of a healthy animal		
	Explain what external and internal parasites are.		
	Prepare a list of livestock equipment & supplies needed at a Fair		
	Demonstrate appropriate safety precautions while properly grooming & showing your animal(s).		
	Prepare a thank you card to be used to thank a sponsor		
[QA]	Conduct a safety evaluation of your livestock facilities; report any changes needed/made to promote		
	animal well-being		
[QA]	Explain how a veterinarian can help you keep your animal healthy.		
[QA]	Describe where vaccinations should be given on your animal		
[QA]	Name 3 things you can do to minimize parasites on/in your animal.		
[QA]	Define medication withdrawal time.		
(QA)	Define the following terms: ethics, sportsmanship, quality assurance		
(QA)	Describe what an animal by-product is		



LEVEL 2		Leader's Initials
Explain impact of temperature extremes (hot & cold), wind and humidity or	livestock performance	
Describe what steps can be taken to minimize odors from manure.		
Identify at least 3 problems created by insufficient air circulation within live	stock facilities.	
Describe the difference between a dominant and recessive gene.		
Explain what a crossbreeding program is and why would it be used.		
Identify heat detection methods used for your species of animal.		
Identify at least 5 locations used to estimate the degree of muscling and/or	degree of finish.	
Describe the industry standards for your species of animal.		
Evaluate, rank and give reasons on a class of four animals		
Describe how nutritional requirements vary based on animal's stage of grov	vth or production.	
List at least 7 pieces of information found on a feed tag.		
Describe the differences between a monogastric and ruminant digestive sys	item.	
Demonstrate how to calculate average daily gain and feed efficiency.		
List 7 symptoms that might indicate your animal is sick		
Explain the difference between a vaccination and a medication		
List at least 3 internal and 2 external parasites common to your animal.		
Demonstrate proper grooming and showmanship techniques for younger m	embers in your group.	
Describe the difference between wholesale and retail cuts of meat		
List the applicable USDA Quality and/or Yield Grades for your species		
Demonstrate how to use a carcass grid and/or probe in taking carcass meas	urements	
Name the six pillars of characters		
List 10 examples of by-products derived from your species of animal.		
[QA] Describe 5 things producers can do to minimize stress when handling anima	ils.	
[QA] Describe the difference between a "caution" and "warning" on a feed tag.		
[QA] Describe a valid Veterinary-Client-Patient relationship.		
[QA] List at least 6 pieces of information found on a medication label.		
[QA] Describe why it is important to follow medication withdrawal times		

LEVEL 3		Leader's Initials
Explain the roles of estrogen, FSH, LH and progesterone in male & female reproductive physiology.		
Define heritability and how it is used in breeding management decisions.		
Identify the parts of the species female and male reproductive tracts.		
Describe what artificial insemination and embryo transfer is and why producers might use them.		
Explain why structural soundness is critical in both breeding and market animals; list 5 common structural		
defects within your species.		
List the 10 essential amino acids.		
Describe difference between fat-soluble and water-soluble vitamins; list the 4 fat-soluble vitamins.		
Name in order the four compartments within the ruminant stomach; explain how roughages are broken		
down within that system.		
Explain why average daily gain and feed efficiency are critical factors for successful livestock production		
operations.		
Describe the physical and economic impacts that parasites have on animal production.		
Give a marketing/sales presentation (including buyer recruitment, appropriate thank you notes, etc.) at a		
club/project meeting		
Name all the wholesale cuts of meat for your project animal species.		
Explain how the USDA Quality and/or Yield Grades for your species are determined.		
Identify 4 examples of unethical behavior; explain why each is wrong and what you think the		
consequences should be for someone doing that.		
Track weekly market prices for US No 1 hogs, choice lambs or choice/yield grade 3 steers. Plot this		
information on a graph.		
Develop a balanced ration for your project animal species.		
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 reproduction at your club or group meeting	
	Prepare/give a 7-10 minute presentation on ethics education at your club or group meeting	
	Prepare/give a 7-10 minute presentation on related career opportunities at your club or group meeting	
[QA]	Name and describe at least four common routes of administering a health care product.	
[QA]	Describe the preferred method of administering a vaccine (if not specified) and why it is preferred.	
[QA]	Name at least 8 items that should be listed on an animal treatment record.	
[QA]	Explain the differences between "extra-labelled" and "off-labelled" use of medications or vaccines.	
[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	