Name: _____

CASE
Curriculum for Agricultural Science Education

Activity 3.3.1 Animal Needs

Purpose

Shelters for humans have evolved greatly over time. This process of continuous improvement has provided people advanced protection from the sun, wind, rain, and snow, allowing homes to be built in less than favorable conditions. Just as advancements have been made in human shelters, livestock and poultry shelters have become more sophisticated, providing the ideal growing conditions for animals.

People choose shelter based on lifestyle choices, finances, and location rather than a specific need for space. However, producers house livestock animals in the most space and cost efficient manner. You may have a bedroom, bathroom, kitchen and living room in a house that you share with your family. Could you maintain a satisfactory lifestyle with less? What type of space does an animal need to maintain its lifestyle? What requirements need to be considered when producing an animal?

Materials

Per student:

Computer with Internet access
Pencil
Agriscience Notebook

Procedure

In this activity, you will determine the space needs of the animal for your *Producer's Management Guide*. Before planning facilities for your animal, you need to learn the amount of space your animal requires for various activities.

Research and record the basic needs of the animal you plan to raise on *Activity 3.3.1 Student Worksheet.*

Investigate the various feeding, watering and manure management system options related to your animal and provide a short comparison of each.

Complete all information relevant to the animal in your *Producer's Management Guide*. Use *Activity 3.3.1 Student Worksheet* as a guide for your research. Some given options may not fit for your animal and there may be missing options, change and use columns as needed.

Conclusion

1. What role does the stage of production of an animal play in its space requirements?

   The role of moving and how big they are

How does the climate in your region influence the type of shelter provided to animals? Its a bit medium and animal can enjoy a bit

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Activity 3.3.1 Student Worksheet

Stages of Production	Mature and Producing Animals	Young	Finishing (slaughter animals)	
Housing Type	Space requirement per animal (ft^2)			
three-sided shelter	let them breed and also feed them as much as you can	separate from other pigs be only with mom for a month	when fed until their market weight	pig pen 10ft to 10ft and 400ftsq each
Open sided, single slope roof shed	encourage cows to breed for one baby calf per year	be with mom at all times until it looks ready to be separated	when its 18 months old	30 to 50ft2 for each cow
Traditional barns, pole buildings, and metal buildings	breed with purebred sheep for best results	check if its alright and no health problems	slaughter in 6-8 months	16 to 20ft for eac sheep
pens	let them breed as much as they want	check egg regularly separate them from other chickens	5 to 7 weeks	10 inches for each chicken
Thermoneutral Zone (°F or °C)	101.5° - 102.5° F. PIG	101.5 °F cow	102.3 sheep	105 to 107 F chicken
Water Needs (quantity per day)	8 to 25 liters pig	1 gallon per 100 pounds cow	½ to 4 gallons of water per day sheep	.5 liters of water each day chicken
Feeding System	Description of Feeding System			
plan	plan where you think the food should be in			
designating area	see where the animals can reach the food an enjoy it			
place	when done place the food area so the animals can eat it			
Watering System	Description of Watering System			
clean and fresh	always clean water so they wont get sick and will enjoy it			
constant and adequate supply	always have enough water for everyone			
accessibility	see if the animals can get to the water			
Manure Management	Description of Manure Management System			
capture	get all the manure			
storage	put in a place so then you can use it			
reuse	reuse for fertile and other needs			
Regional Climate Stats	**Winter**	**Spring**	**Summer**	**Fall**
Average Daily Temp	58.9 °F (14.9 °C) and the average low is 34.4 °F	72 F high and low 53 F	90.6 ˚F (32.6 °C) and an average low of 67.8 ˚F (19.9 °C)	65 f high and low 45 F
Average Humidity	81 and 55	81 and 55	81 and 55	81 and 55

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Wind	20%	50%	25%	65%