EXPLORATORY TASKS STUDENT SAMPLES

CLUSTER: Agriculture, Food and Natural Resources

PATHWAY: Animal Systems Pathway

People with careers in this pathway work to promote the health of food, service and companion animals.

EXPLORATORY TASK: Create an animal care guide for a new caregiver.

- What is a healthy/safe environment?
- What type of food is recommended?
- What are the medical needs?

OBJECTIVE: Introduce students to the basic needs of animals.

TEACHER SUPPORT:

 Collaborate with a veterinarian, animal care professional, local extension agent, science teacher or a CTE agricultural science teacher.

STUDENT SUPPORT:

• Provide links, examples, checklist and/or a template for students to use.

LEARNING EXTENSIONS:

- Invite a veterinarian, animal care professional, local extension agent or a CTE agricultural science teacher to discuss the basic needs of animals.
- Lead a discussion connecting school subjects and this pathway.
- Lead a discussion about personal qualities of an animal care professional.
- Identify and research a career within this pathway.

CONNECTIONS TO KENTUCKY ACADEMIC STANDARDS

• Career Studies: ES.I.9, CI.2-8

Reading and Writing: RI6.4

• Science: LS1.A Structure and function – 6-8 grade band

NOTE:

- These samples represent students' first introduction to authentic topics and skills related to a career cluster.
- A range of student performance is included within the complete body of work.



What do ducks need to survive?

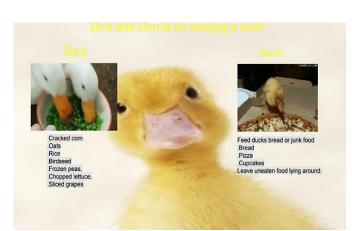


Ducks need a outdoor habitat such as fenced yard or farmland.

- They could also need a pond because they are used to floating around.
- Provide shelter from the weather and safety from predators.
- Clean water and nutritious food need to be provided daily.







MEDICAL NEEDS

- Keeping ducks healthy requires taking the necessary steps to prevent disease.
- · Immunize ducks against known infectious diseases.
- Make sure to not feed ducks moldy and outdated food. Toxins in moldy food can cause serious damage in the digestive organs.

RESOURCES

- https://www.vet.cornell.edu/animal-health-diagnostic-center/programs/duck-research-lab/health-care (Slide 4)
- https://www.caringpets.org/how-to-take-care-of-a-pet-duck/#:~:text=Ducks%2 Oneed%20an%20outdoor%20habitat,need%20to%20be%20provided%20dail v (slide 2)
- https://opensanctuary.org/article/daily-diet-treats-and-supplements-for-ducks/ (Slide 4)
- https://friscolibrary.com/blogs/post/the-dos-and-donts-of-feeding-ducks/
- (Slide 3)





Healthy Environments

Cows need plenty of room, many ground plants for plenty of food. A safe environment includes a fenced in area so nothing can get in or out.



What's good and what's not good for cows to eat?

*GOOD:

*Hay

*Grass

*Feed thats was made for cows only

fruits/ vegetables

*corn

*straw Skittles *BAD:

*chocolate

* blue-green algae

*copper

*grain poisoning

*Molybdenum

*Lead Toxicity



Medicines for cows and how its given

infections like pink eye or infected wounds. Their medicine









Research

https://www.farmhealthonline.com/US/health-welfare/cattle/en vironment/

Slide 4:

Antibiotics in Cattle - Beef2Live Eat Beef * Live Better https://www.beef2live.com.s story-antibiotics-cattle-88-10.

https://opensanctuary.org/article/thin gs-that-are-toxic-to-cows/





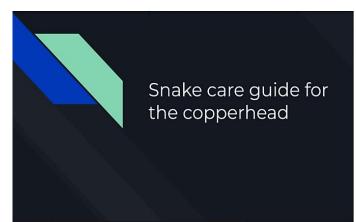






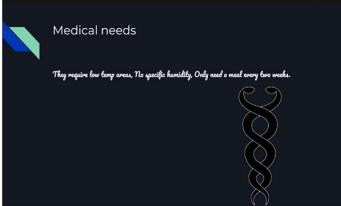




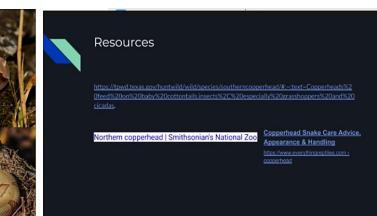


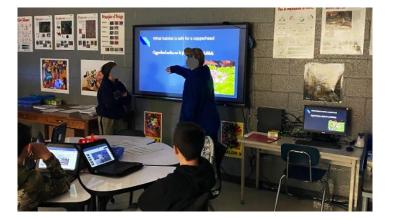














Food for cows

They need hay, water, feed and grass. Also, cows can eat corn kernels and apples if they are beef cattle.













Is a Career in Agriculture, Food & Natural Resources for Me?

Would you be interested in a career in Agriculture, Food & Natural Resources? Below are knowledge and skill statements related to the careers in this cluster. Read each statement. Decide if this describes you by checking the Yes, No or Maybe box.

THINGS I LIKE TO DO	YES	NO	MAYBE
Learn how things grow and stay alive	_	/	
Make the best use of the earth's natural resources			
Hunt and/or fish			
Protect the environment	7		
Be outdoors in all kinds of weather	√		
Plan, budget and keep records	√		
Learn how machines and/or tools work			
PERSONAL QUALITIES THAT DESCRIBE ME	YES	NO	MAYBE
Self-reliant	✓		
Nature lover			
Physically active	V		
Planner	√		
Creative problem solver			
SCHOOL SUBJECTS THAT INTEREST ME	YES	NO	MAYBE
Math	/		
Life sciences		V	
Earth sciences		V	
Chemistry	1/		

Did you check YES most often? If so, continue to explore careers and opportunities in this cluster. And don't forget to focus on your math and science classes to build the academic skills you need for these careers.

Did you check NO most often? If so, don't worry. There are hundreds of jobs to explore in the other 15 career clusters.

Did you check MAYBE most often? If so, continue to explore in this cluster as well as investigating how your skills and interests may be a good match in other clusters.

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Make the best use of the earth's natural resources		X	
Hunt and/or fish		χ	
Protect the environment	- V 2		
Be outdoors in all kinds of weather			
Plan, budget and keep records		X	
Learn how machines and/or tools work	V		
PERSONAL QUALITIES THAT DESCRIBE ME	YES	NO	MAYBE
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Nature lover		У	
Physically active	V		
Planner		7	
Creative problem solver		X	
SCHOOL SUBJECTS THAT INTEREST ME	YES	NO	MAYBE
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