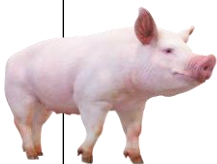


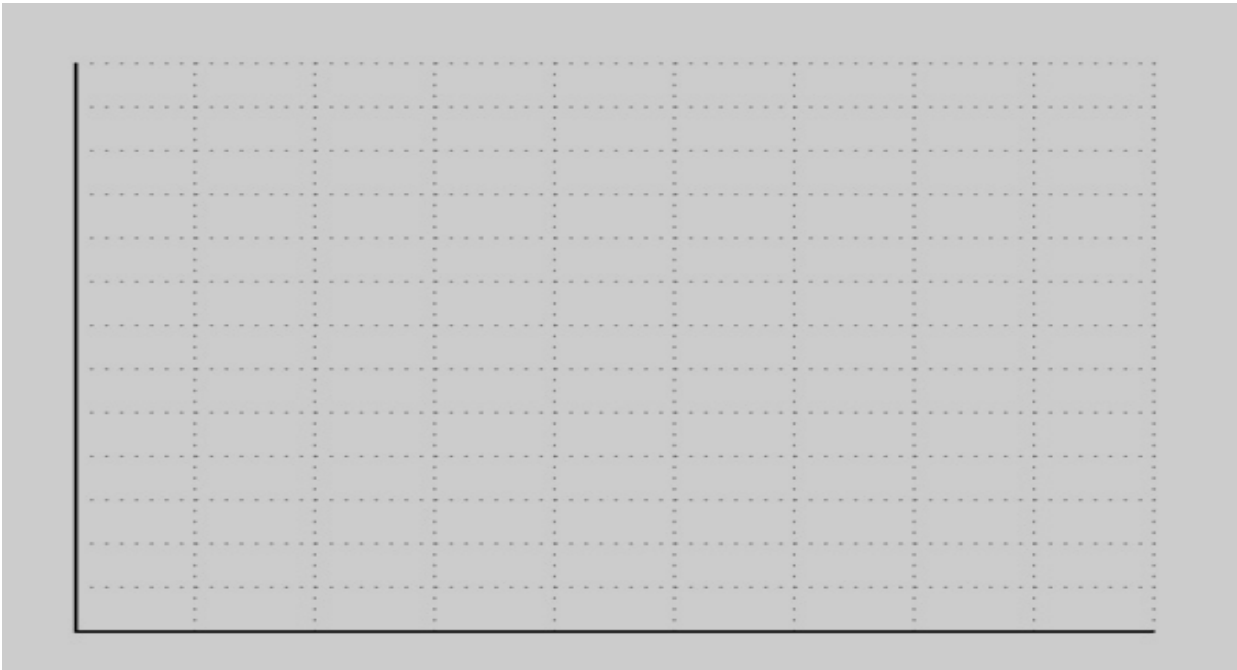
Appendix 5: Rendering for Earth's Protection

Directions: Utilizing the "<https://ffa.app.box.com/file/1027540724129>" publication, complete this activity to gain a better understanding of how the rendering industry protects our health and well-being.

Meat-animal diets generate a lot of waste. In the space below, draw what you believe are three items that generally would go to waste from the animal butchering process.



Complete a line graph below to show the correlation of human population and meat-animal consumption. Label your x-axis and y-axis.

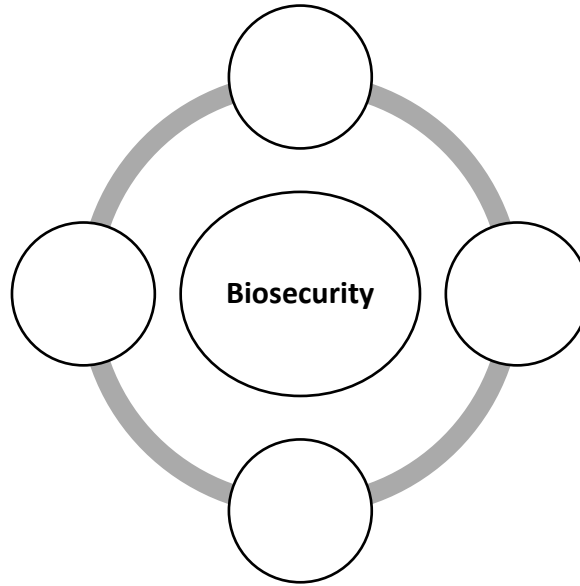


Which are potential problems that can result from the natural decomposition of animals? Shade the correct answer choices **ORANGE**.

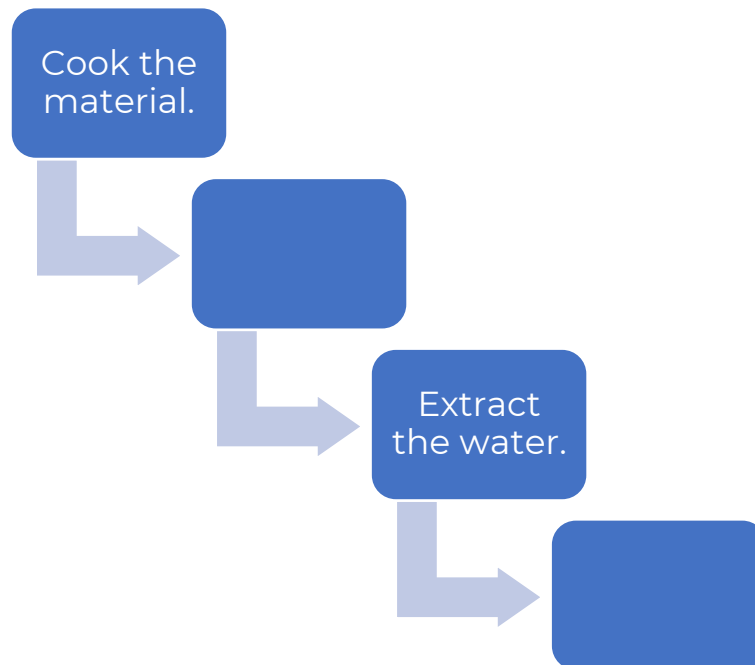
E. coli	Protozoa	Salmonella	Pneumonia
Warts	Pathogenic bacteria	Diarrhea	Viruses



Complete the mind map below depicting what biosecurity represents in the food animal industry. (Example: using high heat to kill bacteria)



Complete the general steps of the rendering process below.



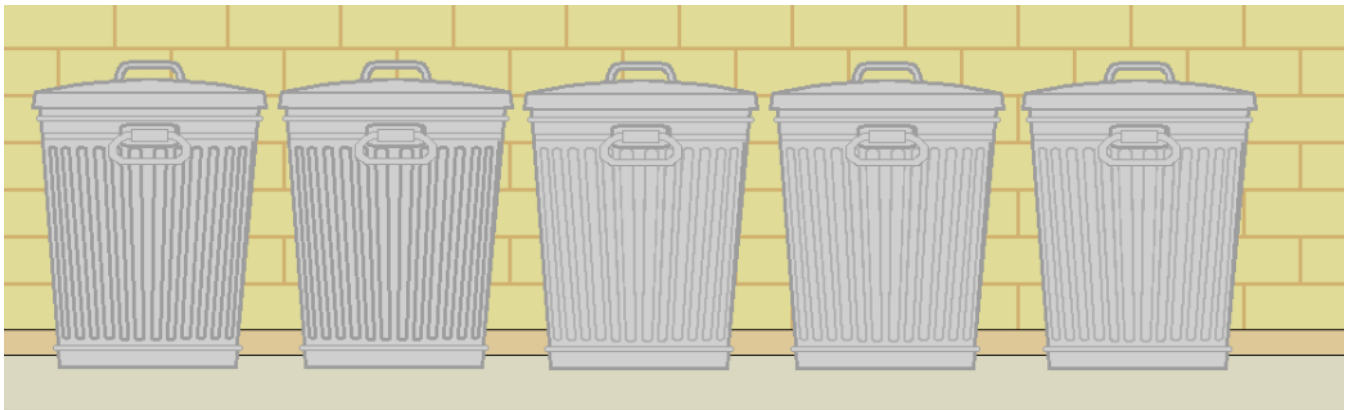
Rendering companies spend _____ of dollars on equipment, analytical labs and monitoring instrumentation to meet _____, state and _____ standards and obtain operating permits for each rendering facility.

As of 2019, Darling owns and operates _____% of the industry-certified rendering facilities in the United States.

Rendering processes use high temperatures between _____ and _____ degrees F that destroy harmful pathogens and microorganisms within the first _____ minutes of processing.



On the trash cans below, identify the common disposal methods for animal mortalities or meat byproducts.



Identify at least three examples of why rendering is a more effective disposal method than landfills and composting.

Example 1

Example 2

Example 3



Identify the four major government agencies that play an integral role in the regulation of the rendering industry and describe their roles.

Agency: _____

Agency: _____

Agency: _____

Agency: _____

Role:

Role:

Role:

Role:



What are the three biggest takeaways from this publication from your viewpoint? In the space below, use words and pictures to describe them.

A large, empty rounded rectangular box for writing or drawing.