

	One time supplies	Consumables	Perishables
Sculpting Meat Science - Creating & Evaluating Steaks	One copy of the "T-Bone Steak Packaged for Retail Sale" photo	2 or 3 ounces of red modeling clay (such as Play-Doh) per team	
	"Meat Science" resource sheet (one per participant)	2 or 3 ounces of white modeling clay per team	
	Scissors (one per group)	Pen or pencil (one per participant)	
	Plates (two per group)	Scratch paper for each participant	
	Labels numbered one through four	Toothpicks (four per group)	
	Clock or stopwatch	Coffee Stirrers (four per group)	
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Growth and Hormones Activity: Examining Growth Hormones in Beef	"Feedstuffs FoodLink: The facts About Growth Promotants" article (one per participant)	42 oz bag of hard-shelled chocolate candy (such as M&Ms or Reese's Pieces)	
	Four 1-quart-sized jars with lids and rings	Thin-tip permanent marker	
		Four self-adhesive labels or four indx cards (optional)	
		Pens or pencils (one per participant)	
		Notebook or scrap paper (one sheet per participant)	
	One time supplies	Consumables	Perishables
Animal Digestion Activity: A Stomach At Work	Easel or display space	Resealable plastic sandwich bags (one per participant plus one for demonstration)	Sliced white bread (one piece per participant plus one for demonstration)
	Clock or stopwatch	3-ounce disposable cups (one per participant)	2-liter bottles of orange juice or cola (about one bottle per 15 participants)

	"The Basics of the Ruminant Digestive System" resource sheet (one per participant, optional)	Paper towels (one sheet per participant and enough for clean-up)	
		Flipchart or other large paper	
		Markers	
		Masking tape	
		Large trash bag (one or more depending on the size of your group)	
	One time supplies	Consumables	Perishables
Biosecurity Activity: Basics of Biosecurity	Easel or display space	Markers	
	Biosecurity bags (one per small group)	Flipchart or other large paper	
	"The Biosecurity of CHIP: Basics of Biosecurity" resource sheet (one per person, optional)	Paper lunch bags (one per small group)	
		16 ounces dry kidney beans	
		16 ounces penne (or similarly shaped) pasta	
		3 ounces decorative food sprinkles	
	One time supplies	Consumables	Perishables
Identifying Cuts of Meat Activity: Pin the Meat Cut on the Animal	"Retail Cuts of Beef, Pork and Lamb" labels (one set per team; one per participant is optional)	Flipchart or other large paper	
	"Meat Cut Key" handout (one per volunteer reviewer; one per participant is optional)	Markers (3 per team)	
	"Unlabeled Wholesale Cuts of Beef, Lamb and Pork Diagrams" handout (one per team; one per participant is optional)	Clear tape (one roll per team, if possible)	
	"Labeled Wholesale Cuts of Beef, Lamb and Pork Diagrams" handout (one per reviewer; one per participant is optional)	Resealable plastic sandwich bags (three per team)	

	Easel or display space (one for activity leader; one per team is optional)	Small prizes (such as badges or pins) for the winners of the "Pin the Meat Cut on the Animal" game (optional)	
	One time supplies	Consumables	Perishables
Farm Animal Reproduction Activity	Easel or display space	Markers	* 10 mini bagels or doughnuts
	"Unlabeled Reproductive Tract of the Cow" handout (one per participant, optional)	Flipchart or other large paper	
	Clock or stopwatch	Masking Tape	
		Pens or pencils (one per participant)	
		One or more trash bags	
		"Construction Reproduction Kit" (1 kit per team, plus one demonstration kit; quantities are based on what is needed to create kits for 10 three-person teams, and may need to be adjusted) *	
		"Kit Supplies" listed next	
		* 7.3-ounce of hard-shelled, bite-sized candies (such as Skittles, M&Ms or Reese's Pieces)	
		* 10 plastic eggs or large gumballs	
		* on 8-ounce bag of small, fish-shaped candy such as Swedish fish or gummies)	
		* one 14-ounce bag of licorice (pull-apart style, if available)	
	One time supplies	Consumables	Perishables
Pathogen Activity: What is a Pathogen?	*Note-(Zoonotic Disease Educational Kit Supplies provided in pathogen kit are based on creating 3 groups)		

<input type="checkbox"/>	*Pathogen Kit (one per small group):		
		2 pipe cleaners, (one whole, eight 1/4-inch pieces, two 3-inch pieces)	
		15 cotton balls	
		1 coffee stir straw (cut into 3 pieces, 1 2/3 inches in length)	
		One 1-ounce container of modeling clay (such as Play-Doh) or similar crafting clay	
		16 photo squares or 16 pieces of double-sided tape	
		1 balloon	
		10 beans	
		1 pencil or other similar-shaped item such as a pen, marker or stick	
<input type="checkbox"/>	If making your own kits, purchase the following items:		
		1 package of pipe cleaners	
		1 bag of cotton balls	
		1 package of coffee stir straws	
		one 3-pound container (or numerous smaller containers) of modeling clay (such as Play-Doh)	
		1 tape dispenser of double-sided tape or package of photo squares	
		6 or more ballons	
		16 ounces dry beans (any type)	
		1 pencil or other similar-shaped item such as a pen, marker or stick per group)	
	One time supplies	Consumables	Perishables

Diseases that Animals and Humans Share: The Words You Need to Know	<i>Diseases That Animals and Humans Share: The Words You Need to Know</i> vocabulary cards for activity:	48 sticky notes	
	12 cards for beginner participants	1 permanent marker	
	36 cards for advanced participants (set of 12 also used in beginning)		
	Scissors		
	One time supplies	Consumables	Perishables
Mammary Gland Anatomy Activity		Standard 8 1/2-inch by 11-inch sheets of paper, white or notebook (one per individual or group)	
		Markers (one per individual or group)	
<input type="checkbox"/>	For one gland-teat system for group of two to three participants:		
	1 pair of scissors	1 kitchen sponge cut into 3 smaller oval-shaped pieces	Water
	3 small funnels (you can make your own using a circular piece of durable paper or utilize plastic or metal kitchen funnels)	3 large diameter drinking straws that will fit together with the funnels (milkshake straws approximately 1 centimeter in diameter were used in figures 1 and 2)	
	Small safety pin	1 small plactic pop or water bottle (1liter or smaller) with 1 to 2 inches of the bottom removed (carefully using the scissors), leaving a hollow tube for water to flow through	
	Small bucket	1 rubber glove with 4 of the fingers tied off or taped back, leaving one finger to represent a "teat"	
	Overhead projector (optional)	1 cotton ball	

	"Basics of Bovine Mammary Anatomy and Milk Letdown" resource sheet (Use overhead projector to project for the group, or make enough copies to hand out to each group or individual.)	Masking tape or other similar tape (one roll to share between two to three groups)	
		Electrical or other waterproof tape to prevent leaking around funnels (optional, 10 to 2 rolls is plenty depending on the group size)	
		Strong tape such as duct or packaging tape to secure model to a wall or other sturdy surface (optional, 1 roll is plenty)	
		Large paper for instructor to draw diagram on (Optional)	
		Markers for instructor to draw diagram with (optional)	
	One time supplies	Consumables	Perishables
Building on Biosecurity: Reducing the Risk	Clock, stopwatch or other timer	Flipchart or other large paper	
	Easel or display space	Markers	
<input type="checkbox"/>		Pathogen Packages (one per person or small group)	
	"The Biosecurity CHIP: Basics of Biosecurity" resource sheet (one per person, optional)	* 2 dinner-sized disposable plates with sturdy, slightly raised side, or 2 pie tins	* 1 or 2 bite-sized, wrapped chocolate bars
		* About 1 cup flour or similar substance	
		* 1 spoonful brown sugar or similar substance that would be visible against the flour	
		* 5 or 6 small, flat pieces of candy (such as Smarties, SweetARTS or StarBurst)	
		* 6 or 7 fruit-flavored gummy candies	
		Trash bags	

		Disposable spoons (one per person)	
	One time supplies	Consumables	Perishables
Building Structurally Correct Animal Models	A set of building block materials (such as Legos or similar type of building blocks) for each team of participants	Markers	
	Small weight (such as flat rocks) to test strength of models	Flipchart paper or other large paper	
	Flat, level tables for display and construction	Masking tape	
	Large copies of image examples of cattle (consider laminating images)		
	image examples *1 bow-legged, or pigeon-toed animal (Figure 1) *1 cow-hocked animal (Figure 2) *1 frail-boned animal (Figure 3) *1 heavy-boned animal (Figure 4) *1 ideally structured animal (Figure 5)		
	**Special note: If you are not studying beef cattle, consider finding different images to match the animal species you choose to discuss		
	Easel or other display space		
	Clock or stopwatch		
	One time supplies	Consumables	Perishables
Livestock Injection Methods and Placement	Easel or display space	Flipchart or other large paper	
	Sharps container, either commercial or homemade (a labeled, puncture-proof container with a lid, duct-taped closed when done with the activity)	Markers	
		Pens or pencils (one per participant)	
		Disinfectant wipes or spray	

		Disposable latex or nitrile gloves (one pair per person) (Note: Be sure to provide gloves of various sizes, and if anyone in the group is allergic to latex, provide nitrile gloves.)	
		Duct tape	
		Permanent marker	
		Trash bag (one or more, depending on the size of your group)	
<input type="checkbox"/>		"Injection Kits" one per person or team, plus one demonstration kit):	
	*Metric ruler (one per kit, optional)	*New medical syringe and 16- to 21-gauge needle. (Note: 18-gauge needles and syringes that come with the needles attached and that are designed for on-time use are recommended.)	*One of the following per person: about 3-ounces of chicken breast meat (with or without skin), an unpeeled yellow (not green) banana, an unpeeled orange
		*Disposable dinner plates (one per kit)	
		*8-ounce disposable cups (one per kit)	
		*Injected solution: about 3 ounces of water and about 30 drops (a little more than 1/3 teaspoon) of blue or green food coloring per kit	
		Paper towels (at least one sheet per participant)	
	"Injection Methods and Procedures" handout (one per participant)	"Michigan 4-H Animal Treatment Record Sheet" (one per participant, optional)	
	"Sample Veterinary Medication Label" handout OR the actual label from a veterinary medication bottle that is empty and has been thoroughly rinsed (one per participant, optional)		

	"Reading a Veterinary Medication Label Worksheet" (one per participant, optional)		
	One time supplies	Consumables	Perishables
Influenza - Mutation Nation	5 <i>Influenza - Mutation Nation</i> message cards		
	One time supplies	Consumables	Perishables
One Health - Health for One, One Health for All	3 bottles of water (8-16.9 oz bottles)		
	3 dissolvable color tabs (Optional alternative if color tabs are not available: Red, blue and yellow food coloring)		
	4 clear cups (5 to 12-ounce cup depending on size of water bottles)		
	Paper towels (optional)		
	One time supplies	Consumables	Perishables
Careers - Bridging Human and Animal Health	26 "Career Description" cards		
	Beach ball or similar item		
	One time supplies	Consumables	Perishables
Toxins and Your Animal		Two 16.9-ounce or larger bottles of soda	Two pieces of lettuce that can fit in a 16-ounce cup floating on the soda
		Recommended: any cola-type soda (preferred example - Diet Coke)	
		Two clear plastic 16-ounce cups	
		One package of circular mints that are porous and sugar-coated (Recommended Mentos Mint for largest reaction)	
		Approximately 4 ounces of water	
		Paper towel (for clean-up of soda)	
		Trash bag	

	Easel or display space (optional)	One 40-ounce bag of gummy bears	One 9-ounce or larger package of romaine lettuce, chopped or shredded
		Plastic knife	0.25 pounds of fresh green beans (or drained and rinsed canned beans, or frozen beans, if out of season)
		One 16-ounce container of peanuts (or other nuts or dried beans depending on allergies)	
		Snack-sized re-sealable plastic bags (one for each ingredient above, with each group getting all six ingredients)	
		Trash bag (one or more depending on the size of your group)	
		Thin-tip permanent marker (optional)	
		Flipchart or other large paper (optional)	
	One time supplies	Consumables	Perishables
Understanding Disease Outbreaks	<i>The Junior Disease Detectives -Operation: Outbreak</i> graphic novel: https://www.cdc.gov/flu/resource-center/freeresources/graphic-novel/index.html	Tape	
	"Vocabulary" handout	Writing and drawing utensils such as markers, crayons, colored pencils (optional)	
	"Questions" handout	Cardstock	
	"Answers for Large Group Questions" handout		
	Scissors		
	"Graphic Novel Storyboard" handout (optional)		
	"Speech Ballons" handout (optional)		

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