

White County 4-H
Dairy Educational Activities – Level 2 - Series #2
Project Year _____

Activity #1 – Chapter 5

1. A ruminant's stomach has how many compartments? _____
2. True or False The rumen can only hold 10 gallons of food.
3. Name 2 microorganisms that live in the rumen.

4. Microorganisms _____ and _____ feed and nutrients to products the animal can use.
5. True or False The protein from microbes provide approximately 2/3 of the protein a cow requires.
6. A healthy rumen has a PH of _____ to _____.
7. Cows will spend up to _____ percent chewing their cud.
8. The reticulum is also called the _____.
9. The abomasum is also called the _____.
10. True or False The rumen is fully developed when a calf is born.

Activity #2 – Chapter 13

1. True or False Withdrawal time is the time allowed to use entire bottle of medication.
2. True or False Extra label drug use is always illegal.
3. True or False Over the counter drugs are normally available in farm stores.
4. True or False Most animal prescription drugs can be purchase at your local drug store.
5. True or False Subcutaneous (SQ) shots are to be given in the animals thigh.
6. True or False Intramuscular (IM) shots are given under the skin.
7. True or False Intramammary (IM) shots are given in the udder.
8. True or False Intravenous (IV) shots should only be given in the neck.
9. True or False No more than 10cc of medication should be given IM in one spot.
10. True or False When treating Intramuscularly the only milk affected is from that quarter of the udder.

Activity 3 – Chapter 5

Fill in the blanks for “Color” and “Texture” for each feedstuff.

Table 5-17. Feedstuffs Fed to Dairy Cattle. These feedstuffs are used throughout the livestock industries.

Name of Feed	Color	Texture	Other Characteristics
Whole-Grain Oats			Common cereal grain fed for its fiber.
Cracked Corn			Whole corn kernels that have been broken; starch may stick to fingers.
Soybean Meal			By-product after removing oil from oil-seeds; 44% crude protein (CP) soybean meal = soybean meal plus soybean hulls; 48% CP = soybean meal without hulls.
Complete Pelleted Feed			Tubular shaped particles that may be of varying length because of breakage of the pellets.
Dry Molasses			Sweet smell; high in sugar; made from sugar beets (most common source) or sugar cane.
Whole Kernel Corn			Most common cereal grain in Ohio.
Steam-Rolled Oats			Whole oats that have been steamed and rolled; look for creases in the kernel caused by the roller
Dried Whey			Smells sweet like milk replacer; by-product from making cheese.
Trace Mineral Salt			Looks like tiny, uniform crystals.
Ground Limestone			Looks like small rocks of various sizes.
Dried Sugar-Beet Pulp			Looks like a dried root; by-product from removing sugar from beets.
Steam-Rolled Barley			Whole barley that has been steamed and rolled; look for creases in the kernel caused by the roller; darker color and shorter in length than rolled oats.
Hay Cube			Large cube with noticeable hay particles pressed together.
Wheat Middlings			By-product from removing starch from wheat; looks like crumbled bran cereal.
White Salt			Looks like tiny, uniform grainy crystals.
Fish Meal			Smells like fish; look for tiny bone chips; by-product from fisheries or removal of oil from fish.