

THE OHIO STATE UNIVERSITY EXTENSION

Seneca County Junior Fair Skillathon

STUDY GUIDE A - DAIRY

TOPICS/ RESOURCES	RESOURCE MANUAL	BEGINNER LEVEL (8-11)	INTERMEDIATE LEVEL (12-14)	ADVANCED LEVEL (15-18)
Environmental Stewardship & Farm Safety	Ch. 3, 9	Understand a Flight Zone and how to work safely with dairy cattle. Understand environmental concerns with cattle production.	Understand cattle behavior, Flight Zones and dairy cattle safety. Identify manure handling systems and how they protect the environment.	Predict cattle behavior based on its Flight Zone. Understand how to manage cattle manure properly to decrease environmental concerns.
Nutrition & Digestion	Ch. 5	Identify the 5 categories of nutrients and how to read a feed label. Identify the 4 compartments of the cow stomach.	Understand nutrients and how to read feed labels. Understand how cattle break down food with a ruminant digestive system.	Identify nutrients, deficiencies and understand ruminant digestion. Understand nutrient requirements at stages of growth and reading feed labels.
Health & Treatment	Ch. 6	Understand infectious diseases and internal/external parasites, as well as management practices in calves.	Identify calf diseases and management practices in cattle throughout different stages of their lives. Understand biosecurity.	Understand cattle diseases, including symptoms and treatments. Understand management practices of dairy cattle.
Mammary Function & Dairy Products	Ch. 7, 12	Identify external anatomy of the udder. Define mastitis. Understand milking procedures and processing.	Understand external and internal udder anatomy. Understand mastitis. Understand milking procedures and processing.	Understand external/ internal udder anatomy and hormone production. Understand mastitis. Understand milking procedures and processing.
Equipment	Ch. 1 - 15	Identify and understand the purpose of the following equipment: Brand, Bulk Tank, California Mastitis Test, Cannula, Castrator (Elastrator), Clippers, Curry Comb, Dehorner, Halter, Heat Detector Pad, Hutch, Pulsator, Obstetrical Chain, Syringe, Tail Comb, Teat Dip Cup, Topline Brush		