

Teaching Calendar 2019-2020
VCTC
Livestock Management & Operating the Farm Business

Week	Unit	FFA
1-2	Biosecurity & Anatomy & Physiology of Livestock, government agencies, Job Applications, Etiquette	
3	Safety & Security, Livestock Facilities & Equipment, restraining & Handling Livestock, Resume, Veterinary Practices performed by livestock owner/manager, create a Biosecurity plan	Ag Demo
3 & 4	Ag Communications- Agvocacy, Ag Literacy/Food Labeling, Ag Tourism, Apiary's, Niche Markets	
5 & 6	Dairy- Milk, Marketing, Mastitis Control, milk Quality Standards, milking equipment, milking practices, management of dry cows. Dairy Leaders of Tomorrow- Butter, Cheese, Ice Cream	Jr. Dairyman's
7	Natural Resources- On Farm Forestry Enterprise opportunities in VA, Cover Letter	
8-11	Beef Cattle- Care of Breeding Stock, bedding materials, loading and transporting, treating injured, dead animals, caring for newborns, weaning, dehorning, castrating, tagging, Parasite Control, Vaccine Storage and Usage, Diseases, showing and fitting, evaluate cattle, AI, ET, Nutrition, Marketing, Workplace Readiness Skills, Grades testing	Jr. Stockman's, Livestock
12 -14	Sheep & Goats -Care of Breeding Stock, bedding materials, loading and transporting, treating injured, dead animals, caring for newborns, weaning, dehorning, Sheep- Alpacas, Harvesting Fiber, Marketing Options, Predator Control, castrating, tagging, Parasite Control, Vaccine Storage and Usage, Diseases, showing and fitting, evaluate sheep, Lamb	

15-17	Poultry- Turkeys- Production Systems, Culling, Grades, Digestion, Poultry Embryology, grower contracts, waste management, biosecurity plan, Broilers- Production Systems, Culling, Grades, Digestion, Poultry Embryology, grower contracts, waste management, biosecurity plan, eggs, Research and Development Poultry Produce	Poultry Judging
18-19	Plant Science- cropping system, soil test reports, interpret soil map, prepare seed beds, Precision Agriculture, Pesticides- types, safety, proper use, calibrate a sprayer, identify types of crop damage, cultivation program, harvest crops, tillage systems, develop a sample nutrient management plan	
20 - 23	Ag Business- procedures, laws, licenses for starting a business, job description and hiring plans, business plan, expansion plan, estate planning, paycheck deductions, Ag Business- real depreciation and income tax depreciation, state and federal income tax forms, credit plan for business, reconcile bank statement with check register, enterprise budget, Ag Business- production record forms, income and expense record, supply & demand, opportunity cost, relationship between inputs and outputs, net worth statement, income statements, contracts, risk management plans, farm/rent lease agreements, Ag Law,	
24 -25	Mechanics- plan farm structure, maintain & operate farm machinery, farm water system, repair, select & service farm equipment & tools, prepare equipment for use, prepare equipment for storage, calibrate planting equipment, identify farm structures and uses,	
26 - 27	Government Relations/Agriculture Development - Soil Conservation Agencies	
28	Careers in the Agriculture Industry	
29	Meats/Food Safety	
31 & 32	Food Insecurity/Food Deserts/International Agriculture/Global Trading	

33	Technologies Used in Agriculture- UAS,	
34	Farm Safety- Servicing, Maintaining, Repairing	
35	Aquaculture-	
36	Cybersecurity in Agriculture- Define asset, threat, vulnerability and risk. Identify the DHS 16 critical infrastructure sectors. Identify facilities that engage in food, beverage processing. Identify national and international cybersecurity laws and policies. Explain the Economic Espionage Act, 2017 Securing our Agriculture and Food Act. Research educational requirements for cybersecurity jobs in agriculture.	