

Course: Animal Science

Instructor: Carolyn Wright

| Unit | Time Frame | Learning Target (s) / Objective (s) | Standard (s) | Vocabulary | Assessments/Topics |
|----------------------------------|------------|---|------------------------------------|--|---|
| Animal Welfare vs. Animal Rights | September | Explain the difference between animal welfare and animal rights | | Animal Welfare, Animal Rights | Animal Welfare vs. Animal Rights Debate; Temple Grandin Movie Reflection |
| Large Animal Handling/Restraint | September | Demonstrate the ability to tie different knots used in animal restraint, Explain when to use different types of knots to restrain animals, Identify other tools used to restrain large animals, Explain the reason for animal restraint, List at least 3 safety laws and regulations pertaining to working with large animals | AS.02.01, AS.02.02.03.c, HS-ETS1-2 | Subcutaneous, Intramuscular, Intravenous, Chute, Halter, Ear Tags, Collars | Tools, Knots/Haltering/Leading, Chute Operation/Trimming, Giving vaccinations, Drawing Blood, Animal ID Systems, Workplace Safety Laws and Regs |
| Animal Anatomy | October | Correctly utilize appropriate animal terminology | | | Animal Terminology, External Parts, Body Planes, Equine Gaits |

| | | | | | |
|--------------|---------|---|---|--|---|
| Horses | October | Identify colors and markings in equine; Identify breeds of horses; Explain the uses of horses in the past and present; Evaluate horses on confirmation, performance, etc. and justify why you placed them the way you did. | AS.01.01.02.b, AS.01.02.01, AS.04.02 | Equus Caballus, Foal, Colt, Filly, Stallion, Mare, Gelding, Foaling, Action, Barren Mare, Black Points, Blemish, Conformation, Dam, Draft Horse, Equitation, Farrier, Hand, Horsemanship, Light horse, Pony, Sire, Sound, Unsoundness, Bay, Black, Brown, Chestnut, White, Dun, Gray, Palomino, Roan, Appaloosa, Pinto/Paint, Overo, Tobiano, Bald Face, Stripe, Blaze, Snip, Star, Stocking, Sock, Ankle, Coronet | Breeds, Markings/Colors, Uses/Judging, Carrier: Farrier |
| Dairy Cattle | Oct/Nov | Identify breeds of dairy cattle, Apply knowledge of terminology and external anatomy to judge dairy cattle; Explain the advantages and disadvantages to different dairy facilities; Conduct and interpret milk quality tests; Describe proper calf management procedures. | AS.01.01.02.b, AS.01.02.01, AS.04.02, AS.05.01, HS-ETS1-2, HS-LS3-2, HS-LS3-3, CCSS ELA- Literacy.CCRA.W.2d, CCSS.MATH.CONTENT .HSS.MD.A.3, CCSS.MATH.CONTENT .6.RP.3c | Bos Taurus, Calf, Bull Calf, Female-Heifer Calf, Bull, Cow, Steer, Calving, Ruminant, Holstein, Jersey, Guernsey, Brown Swiss, Ashyire, Milking Shorthorn | Breeds, Judging w/ reasons, Housing considerations: facility mgmt, Milking Parlors/Procedures/DHI, Administering IV meds, Mastitis Testing & Culture Lab, Calf Management |

| | | | | | |
|-------------|----------|--------------------------------|--|---|---|
| Beef Cattle | December | Identify breeds of beef cattle | AS.01.01.02.b, AS.01.02.01, AS.02.02, AS.04.02, AS.05.01, HS-ETS1-2, HS-LS3-2, HS-LS3-3, CCSS.MATH.CONTENT .HSSMD.A.3 | Bos Taurus, Calf, Bull Calf, Female-Heifer Calf, Bull, Cow, Steer, Calving, Ruminant, Marbling, Angus, Hereford, Shorthorn, Texas Longhorn | Breeds, Judging, Using weight tapes, Production methods, BQA Training/Certification |
| Swine | Dec/Jan | Identify breeds of swine, | AS.01.01.02.b, AS.01.02.01, AS.04.02, AS.05.01, HS-LS4-3, HS-LS4-4, HS-ETS1-2, HS-LS3-2, HS-LS3-3, CCSS.ELA- Literacy.RST.11-12.2, CCSS.ELA-10.10 LIT RST, CCSS. ELA- Literacy. SL.11-12.2, CCSS. MATH. CONTENT.6.RP.A.3.C, CCSS.MATH. CONTENT.6.SP.2, CCSS.MATH.CONTENT .7.RP.2a, CCSS.MATH.CONTENT .7.SP.1, CCSS.MATH.CONTENT .HSS.MD.A.3 | Sus scrofa, Piglet, Shoat, Gilt, Boar, Sow, Barrow, Farrowing, Primary Cuts, Duroc, Berkshire, Yorkshire, Spotted, Landrace, Poland China, Hampshire, Chester White, Pie Train, Hereford, Castration, Dock | Breeds - create your ideal project, Judging, Production methods, Production calculations- ADG, efficiency, feed conversions; Withdrawals/withholdings , Ear Notching |

| | | | | | |
|-------|----------|--------------------------|--|--|---|
| Goats | Jan/Feb | Identify breeds of goats | AS.01.01.02.b, AS.01.02.01, AS.04.02, AS.07.01.03.a, HS-LS4- 2, HS-LS3-2, HS-LS3-3, HS-LS2-6, HS-LS4-1, HS-LS4-2, HS-LS4-4, CCSS.ELA- LITERACY.RST.11- 12.2, CCSS.ELA- LITERACY.RST.11- 12.7, CCSS.ELA- LITERACY.RST.11- 12.9, CCSS.MATH.CONTENT .HSN.Q.A.1, CCSS.MATH.CONTENT .HSN.Q.A.2, CCSS.MATH.CONTENT .HSN.Q.A.3, CCSS.MATH.CONTENT .HSA.CED.A.1 | Angora, La Mancha, Boer, Alpine, Myotonic, Nubian, Pygmy, Saanen, Spanish | Purposes/Breeds, FAMANCHA training, Alternative parasite mgmt., BCS, Disbudding/Dehorning, Tattooing |
| Sheep | February | Identify breeds of sheep | AS.01.01.02.b, AS.01.02.01, AS.04.02. Performance indicator: Apply scientific principles to select and care for breeding animals., HS- LS3-2, HS-LS3-3, CCSS.MATH.CONTENT .HSS.MD.A.3 | Ovis Aries, Lamb, Ram Lamb, Ewe Lamb, Ram, Ewe, Wether, Lambing, Lamb, Mutton, Wool, Lanolin, Cheviot, Polled Dorset, Hampshire, Finnsheep, Merino, Rambouillet, Suffolk, Columbia, Barbados Blackbelly, Katahdin | Purposes/Breeds, Judging, Wool Characteristics/Project, Tail Docking |

| | | | | | |
|-------------------------|-------------------------|---|--|---|---|
| Poultry and Waterfowl | March | Identify breeds of poultry; Identify the different components of an egg through dissection | AS.01.01.02b, AS.01.02.01, CCSS.MATH.CONTENT .HSN.Q.A.1, CCSS.MATH.CONTENT .HSN.Q.A.2, CCSS.MATH.CONTENT .HSN.Q.A.3 | Gallus Gallus, Chick, Cockerel, Pullet, Rooster, Hen, Oviparous, Poultry, Yolk, Germinal Disc, Vitelline, Chalazae, Shell, Air Cell, Shell Membrane, Thin Albumen, Thick Albumen, | Types/Breeds, Biosecurity, Understanding labeling terms, Egg Grading, Turkey Production, Broiler Production |
| Nutrition | March/April | | HS-LS1-3, CCSS.ELA- LITERACY.CCRA.W.Dd, CCSS.ELA- LITERACY.CCRA.W.9, CCSS.MATH.CONTENT ,6.RP.A.3.C | | Feed ID, Ration Balancing, Ruminant Digestion & Disorders Lab, Palatability Study |
| Reproduction/Genetics | April/May | | HS-LS3-1, HS-LS1-8 | | Basic Inheritance, Understanding and using EPD's, Reproductive Anatomy, Estrus Cycle/Breeding/AI, Castration Methods |
| Careers | Scattered Throughout | | CS.05, CCSS.EE.SL6, CDOS1, CDOS2 | | Field Trips, Guest Speakers, Resumes/Jop Apps* |
| Leadership | Scattered Throughout | | | | Prepare 1 LDE and 1 CDE of choice, Develop and maintain an SAE - keep records in AET |
| Current Events/Research | Scattered Throughout | | | | Current Event Report*, Scientific Paper Presentation* |

* Means assignments involve writing

**Program Materials /
Resources**

iPad, Animal Rights vs.
Animal Welfare Articles,
Debate outline, Temple
Grandin Movie
Reflection
Sheet/Questions

Rope, iPad















































































