

Equipment and Technical Guide for: AA21 Animal Science I

Category	Item	Quantity	Required?
tool	10" fence pliers	1C	yes
tool	125 ml - 1000 ml Erlenmeyer flask	5C	yes
equipment	13" long lambing forceps	1C	yes
tool	150 lb. small animal scale	1C	yes
tool	18" obstetrical pig snare	1C	yes
tool	2 qt. lamb nursing bottle	2C	yes
tool	2 qt. measuring cup	40C	yes
tool	21 cubic feet refrigerator/freezer	1C	yes
tool	23" hog slappers with fiberglass center	2C	yes
tool	24" Floor brush with horse hair	4C	yes
tool	24" wide barn scraper with wood handle	4C	yes
equipment	24" x 72" student lab Table	2C	yes
tool	25' heavy-duty extension cord	2C	yes
tool	25' long 5/8" water hose	4C	yes
tool	3 cc disposable syringe with needles	10C	yes
tool	3,000 lb. heavy duty scale	1C	yes
tool	35" long hog catcher	1C	yes
tool	4 qt. measuring cup	40C	yes
equipment	4' x 8' dump trailer	1C	yes
tool	4-student lab station with accessories including valves, sinks, and lamps	5C	yes
tool	400 lb. hog and sheep scale	1C	yes
tool	5" needle-teeth nippers	2C	yes
tool	5-ton jack stand	4C	yes
tool	5/8" diameter balling gun	1C	yes
tool	50 ml - 500 ml volumetric and snap cap flask	100C	yes
equipment	50 ml., 100 ml., 250 ml., 500 ml., and 100 ml graduated and autoclavable beaker	100C	yes
tool	50' heavy-duty extension cord	2C	yes
tool	50' long 5/8" water hose	4C	yes
tool	500 ml and 1000 ml side-arm flask	100C	yes
tool	6" sheep shears	1C	yes
tool	6-cubic-foot wheelbarrow	1C	yes
tool	60 cc disposable syringe with needles	10C	yes
tool	600' 1/2" poly rope for halters	1C	yes
tool	7" animal trimming scissors	2C	yes
tool	8", 10", 12" 2nd cut round file	2C	yes
tool	Adjustable steel stool	20C	yes
tool	Alcohol lamps	5C	yes
tool	Animal dryer with accessories	1C	yes
tool	Animal foot bath, 5' x 18" x 5" deep	1C	yes
tool	Animal heat pads (electrically heated fiberglass mat)	2C	yes
tool	Animal heater lamp (500 watts)	5C	yes
equipment	Animal holder for castration, up to 70 lbs.	1C	yes
tool	Animal I.D. ear punch	1C	yes
equipment	Artificial insemination kit for horses, swine, and cattle	3C	yes
equipment	Artificial insemination tank	1C	yes
tool	Back fat probe with pocket clip	5C	yes
equipment	Balance, electronic 400 g. capacity	1C	yes
tool	Bow rake with wood handle	5C	yes
tool	Calf puller with steel ratchet- wrench handle	1C	yes
tool	Calf restraint (maximum 145 lbs.)	1C	yes

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tool	Castrating knife with stainless steel blades	2C	yes
tool	Cattle squeeze chute	1C	yes
tool	Colorimeter, (LaMotte) AC adapter and rechargeable batteries for wide variety of water testing parameters	1C	yes
equipment	Crucible and lid (1 oz.)	2C	yes
equipment	Culture, incubator, 15 degree - 40 degree C, operational	1C	yes
equipment	Dehorers (electric and manual)	20C	yes
equipment	Dissecting kit containing scalpel, dissecting scissors, forceps, dropper with rubber bulb, 2 straight teasing needles with plastic handles, 6" rulers with inch and metric scales, mall probe, and six 2" t-pins	30C	yes
tool	Droppers, (1.5 ml and 4.0 ml capacity)	100C	yes
tool	Egg candler with 6 watt bulb	1C	yes
tool	Elastrator, 12 oz. weight or heavier	1C	yes
tool	Electric fence charger, 1.5 mile capacity	1C	yes
equipment	Electrophoresis of DNA classroom kit	1C	yes
tool	Emasculator castrator, for lambs, calves, bulls, and horses	20C	yes
equipment	Emu/ostrich incubator, (20 ostrich egg capacity)	1C	yes
tool	Fan rake with wood handle	5C	yes
equipment	Farrowing crate for sow	1C	yes
tool	Gasoline- powered feed/cement mixer	1C	yes
equipment	Germicidal cabinet for safety glass storage	1C	yes
tool	Groomer spray nozzle with shampoo container	2C	yes
tool	Hand-held calculator	30C	yes
tool	Heavy-duty, 22" long grease gun with flexible hose and grease	1C	yes
tool	Hoof knife kit, stainless steel blades with wood handles	1C	yes
tool	Hormel judging computer software	5C	yes
tool	Horse hoof trimming kit	1C	yes
tool	Horse pregnancy test kit	1C	yes
tool	Hot plate with stirring capacity (65 degree C to 510 degree C)	1C	yes
tool	Indoor/outdoor thermometer	5C	yes
tool	Iron, branding freeze, made of copper alloy (0-9)	1C	yes
tool	Iron, branding heater	1C	yes
equipment	Laminar flow cabinet (may replace with culture cabinet)	1C	yes
equipment	Large animal trailer	1C	yes
tool	Livestock blanket for sheep, horses, and cattle	40C	yes
tool	Livestock show halters, (calf, sheep, horses, yearling, cow and extra-large sizes) with leaders, lead chain, and strap	20C	yes
tool	Microscope slides and covers (1"x3") with conventional case	200C	yes
equipment	Microscope, for advanced high school and college, binocular, chiron series	1C	yes
tool	Pet grooming kit	1C	yes
tool	Pet nail and coat clipper	2C	yes
tool	Petri dishes, (100 pack) plastic, disposable	5C	yes
equipment	Pig pregnancy and computerized back fat probe	1C	yes
equipment	Piglet feeder, stainless steel	2C	yes
tool	Pipette pumps (2- to 25-ml capacity)	5C	yes
tool	Polyethylene lab wash bottle, 10 oz. and 32 oz.	100C	yes
tool	Polypropylene utility funnels, 3- 1/4", 5", and 8" top diameter	40C	yes
tool	Portable grooming shoot	1C	yes
tool	Post hole digger with wood handles (5" x 9")	1C	yes
equipment	Poultry brooder, for baby birds or chicks	1C	yes
equipment	Poultry incubator, (64 chick)	1C	yes
tool	Ralgro - implant gun	1C	yes

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tool	Rectal thermometer	1C	yes
equipment	Rotating bolt & nail bin, at least 34" D x 65 11/16" H	1C	yes
tool	Safety glasses/goggles	1S	yes
equipment	Sheep trimming stand	1C	yes
tool	Small animal tattoo outfit (contains pliers and six digits)	1C	yes
tool	Stethoscope	1C	yes
tool	Stirrer bars, box of 200	1C	yes
tool	Syringe with polypropylene needles for animals (10 pack)	10C	yes
tool	Tail docker for small animals	1C	yes
tool	Test tube rack for standard and small-size test tubes (40 capacity)	5C	yes
tool	Test tubes (16 x 150 mm, 20 x150 mm, and 24x 150 mm)	100C	yes
tool	Utility knife with retractable blade	10C	yes
tool	Wire scratch brush with wood handle	2C	yes
tool	Wood handled pitch fork	4C	yes
equipment	Wood or metal storage cabinet, at least 72" H x 36" W x 18"D	4C	yes
equipment	Bush Hog Mower	1C	no
equipment	Chicken Coop	1C	yes
tool	Wood-handled, round-point shovel	2C	yes

Category -

- **equipment** - is a non-expendable, tangible item. It is usually more feasible to repair it rather than replace it with an entirely new unit. It has a unit cost of over \$100.
- **tool** - is an expendable, tangible item. It is usually more feasible to replace it with an entirely new unit rather than repair it. It has a unit cost of less than \$100.
- **curriculum** - is additional curriculum materials.
- **software** - is computer software that is required or can enhance the instruction.
- **training** - is coursework or other professional development for the teacher.
- **subscription** - is for curriculum or supplemental material for a specified period of time.
- **supplemental** - is instructional resources that provide more information about or extend the content of a subject.
- **license/certification** - is examinations, license and certification fees for the students.
- **other** - is additional instructional resources.

Quantity - is the number of items needed for the (C) CTE classroom/lab, for the (B) school building, for the (L) LEA, or the number needed based on the number of (S) students in the classroom/lab.

In some cases the number is based on the (W) workstations in the classroom/lab. A classroom may be divided into several kitchen workstations or hospital bed workstations. In these cases the number of items is what is needed to equip one workstation. The number of workstations is based on the anticipated number of students taking that course at one time.

Quantity Examples:

- 1S = one of these items for each student in the classroom/lab
- 1S, 1C = one of these items for each student in the classroom/lab and an additional one in the classroom for the teacher
- 1:4S = one item for every four students in the classroom/lab
- 1B = one of these items per school building.
- 1L = one of these items per LEA (school district).
- 2C = two of these items per CTE classroom/lab.
- 3W-kitchen = three of these items per kitchen workstation in the classroom/lab.

Required?

- **yes** = This is required to teach the course.
- **no** = This is not required to teach the course.