

Merits:

Principal Uses:

ANIMAL SCIENCE GRAND TETON COUNCIL Merit Badge PowWow Worksheet

| Scout's N | ame | Instructor's Name | | |
|----------------|---|---|------------------------|-------------------------|
| Scout's A | ddress | City | State | ZIP |
| Instruction | | | | |
| 1) 2) 3) | Bring this worksheet, pap | e merit badge book <u>before</u> the first week of the er, and pen or pencil each week. He card with you on the second week. | ne PowWow. | |
| Requireme | nt Instructions* | | | |
| 1) 2) 3) | Requirements 2, 3, 4, 5, ar | completed during the first session of PowWow and 7 should be completed during the second sempleted as homework in the time between the | ssion of PowWow. | owWow. |
| | | the PowWow, certain requirements that w homework. Please LISTEN to ALL INST | | |
| Requirem | ent 1 | |] | Initial |
| | oreeds of livestock in each oreed originated. | of the following classifications. For each bre | ed, tell their princip | al use and merits. Tell |
| HORSES | | | | |
| Breed: | | Origin: | | |
| Merits: | | | | |
| Principal Us | ses: | | | |
| Breed: | | Origin: | | |
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| Breed: Merits: Principal Uses: | Origin: |
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| Breed: Merits: Principal Uses: | Origin: |
| BEEF CATTLE Breed: Merits: Principal Uses: | Origin: |
| Breed: Merits: Principal Uses: | Origin: |
| Breed: Merits: Principal Uses: | Origin: |
| Breed: Merits: Principal Uses: | Origin: |
| SHEEP Breed: Merits: Principal Uses: | Origin: |
| Breed: Merits: Principal Uses: | Origin: |
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| Requirement 2 | Initial |
| | nent 1. Also list five diseases of poultry. Describe the symptoms of it could be prevented. Use the charts at the end of this worksheet. |
| Requirement 3 | Initial |
| Explain the major differences in the digestive systems of | ruminants, horses, pigs, and poultry. |
| Explain how the differences in structure and function ammanagement of these species. | ong these four types of digestive tracts affect the nutritional |
| Requirement 4 | Initial |
| Select one type of animal – beef cow, dairy cow, horse, s properly manage it. Include in your discussion nutritional control/removal, and breeding programs if appropriate. | heep, goat, or hog, or a poultry flock – and tell how you would l (feeding) concerns, housing, disease prevention, waste |
| Animal Chosen: | |
| Feeding concerns: | |
| Housing: | |
| Disease prevention: | |
| Waste control/removal: | |
| Breeding programs: | |

Requirement 5 Initial

Explain the importance of setting clear goals for any animal breeding program. Tell how purebred lines of animals are produced. Explain the practice of crossbreeding and the value of this practice.

Requirement 6 **Initial**

Complete ONE of the following options:

Beef Cattle Option:

Springer: Buck: Doe: Kid:

Visit a farm or a ranch where beef cattle are produced under any of these systems:

- * Feeding market cattle for harvest.
- * Cow/calf operation, producing feeder cattle for sale to commercial cattle feeders.
- * Producing purebred cattle for sale as breeding stock to others.

Talk to the operator. Tell (on another piece of paper) how the cattle were handled, fed, weighed, and shipped. If you cannot visit a cattle ranch or farm, view a video from a breed association, or research the Internet (with your parent's permission) for information on beef cattle production. Tell about your findings.

| Use another piece of paper to sketch a plan of a feedlot, forage and grain storage facilities, and loading chute for 30 or n fattening steers, or sketch a corral plan with cutting and loading chutes for handling 50 or more beef cows and their calvone time. |
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| Submit a sketch showing the principal wholesale and retail cuts of beef. Tell about the U.S. Department of Agriculture (USDA) dual grading system of beef. Tell the basis of each grade in each system. |
| Define the following terms: |
| Bull: Steer: Bullock: Cow: Heifer: Freemartin: Heiferette: Calf: |
| Dairying Option: On another sheet of paper, tell how a cow or a goat converts forage and grain into milk. Explain the differences in feeds typically used for dairy cows versus those fed to beef cows. |
| Make a chart showing the components in cow's milk or goat's milk. Chart the amount of each component. |
| Explain the requirements for producing grade A milk. Tell how and why milk is pasteurized. |
| Tell about the kinds of equipment used for milking and the sanitation standards that must be met for dairy farms. |
| Define the following terms: |
| Bull: Cow: Steer: Heifer: |

Visit a dairy farm or milk processing plant. Describe what you saw and explain what you learned. If you cannot visit a dairy farm or processing plant, view a video from a breed or dairy association, or research the Internet (with your parent's permission) for information on dairying. Tell about your findings.

Horse Option:

Define the following terms:

Use another piece of paper to make a sketch of a useful saddle horse barn and exercise yard.

Tell about the history of the horse and the benefits it has brought to people. Using the four breeds of horses you chose in requirement 1, discuss the different special uses of each breed.

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| Mare: |
| Stallion: |
| Gelding: |
| Foal: |
| Colt: |
| Filly: |
| Mustang: |
| Quarter Horse: |
| Draft Horse: |
| Pacer: |
| Trotter: |
| Pinto: |
| Calico: |
| Palomino: |
| Roan: |
| Overo: |
| Tobiano: |
| |
| Visit a horse farm. Describe what you saw and explain what you learned. If you cannot visit a horse farm, view a video from a breed association, or research the Internet (with your parent's permission) for information on horses. Tell about your findings. |
| |

Outline the proper feeding of a horse doing light work. Explain why the amount and kind of feed will change according to the kind of horse and the work it does.

Describe what colic is, what can cause it, and its symptoms.

Sheep Option:

Use another piece of paper to make a sketch of a live lamb. Show the location of various wholesale and retail cuts. Discuss how wools are sorted and graded.

Do ONE of the following:

Option 1: Raise a lamb from weaning to market weight. Keep records of feed intake, weight gains, medication, vaccination, and mortality. Present your records for review by your counselor.

Option 2: Visit a farm or ranch where sheep are raised. Describe what you saw and explain what you learned. If you cannot visit a sheep farm or ranch, view a video from a breed association, or research the Internet (with your parent's permission) for information on sheep. Tell about your findings.

Describe some differences between the production of purebred and commercial lambs. Then select two breeds that would be appropriate for the production of crossbred market lambs in your region. Identify which breed the ram should be.

| Define the following terms: |
|-----------------------------|
| Wether: |
| Ewe: |
| Ram: |
| Lamb: |
| |

Hog Option:

Make a sketch showing the principal wholesale and retail cuts of pork. Tell about the recommended USDA grades of pork. Tell the basis for each grade.

On another piece of paper, outline in writing the proper feeding programs used from the breeding of a gilt or sow through the weaning of the litter. Discuss the growth and finishing periods from the breeding of a gilt or sow through the weaning of the litter. Discuss feeding programs for the growth and finishing periods.

Do ONE of the following:

Option 1: Raise a feeder pig from weaning to market weight. Keep records of feed intake, weight gains, medication, vaccination, and mortality. Present your records for review by your counselor.

Option 2: Visit a farm where hogs are produced, or visit a packing plant handling hogs. Describe what you saw and explain what you learned.

Define the following terms:

Gilt:

Sow:

Barrow:

Boar:

Avian Option:

Make a sketch of a layer house or broiler house showing nests, roosts, feeders, waterers, and means of ventilation. Explain how insulation, ventilation, temperature controls, automatic lights, and other environmental controls are used to protect birds from heat, cold, and bad weather.

Explain why overcrowding is dangerous for poultry flocks.

Tell about the grading of eggs.

Tell how broilers (fryers) are graded.

Describe the classes of chicken meat.

Do ONE of the following:

Option 1: Manage an egg-producing flock for five months. Keep records of feed purchased, eggs sold, medication, vaccination, and mortality. Present your records for review by your counselor.

Option 2: Raise 20 chicks from hatching. Keep records of feed intake, weight gains, medication, vaccination, and mortality. Present your records for review by your counselor.

Option 3: Visit a commercial avian production facility. Describe what you saw and explain what you learned. If you cannot visit a commercial facility, view a video from a poultry association, or research the Internet (with your parent's permission) for information on poultry production. Tell about your findings.

Define the following terms:

| Hen: | |
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| Rooster: | |
| Chick: | |
| Capon: | |
| Tom: | |
| Poult: | |
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| Requirement 7 | nitial |
| Find out about three career opportunities in animal science. Pick one and find out the education, training | g, and experience |
| required for this profession. Discuss this with your counselor, and explain why this profession might in | terest you. |
| Career: | |
| Education: | |
| | |
| Training: | |
| | |
| Experience: | |
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| Why might this profession interest you? | |
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Merit badge worksheets will not be accepted at the Council Office in place of the official Merit Badge Application Card. Those who do not complete all the requirements should take their partially completed merit badge worksheet and their official application card to their local merit badge counselors for completion.

Chart for Requirement 2

| | HOR | SES | |
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| Disease | Symptoms | How it is contracted | Prevention |
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| Disease | Symptoms | How it is contracted | Prevention |
| Disease | Symptoms | How it is contracted | Prevention |
| Disease | Symptoms | How it is contracted | Prevention |
| Disease | Symptoms | How it is contracted | Prevention |
| Disease | Symptoms | How it is contracted | Prevention |
| Disease | Symptoms | How it is contracted | Prevention |