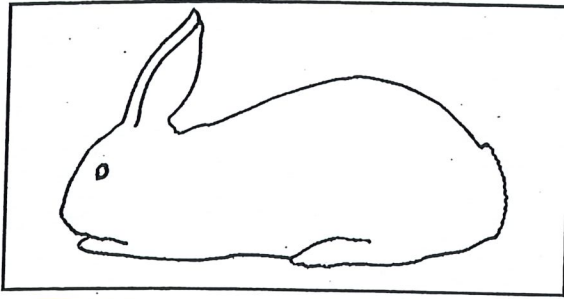


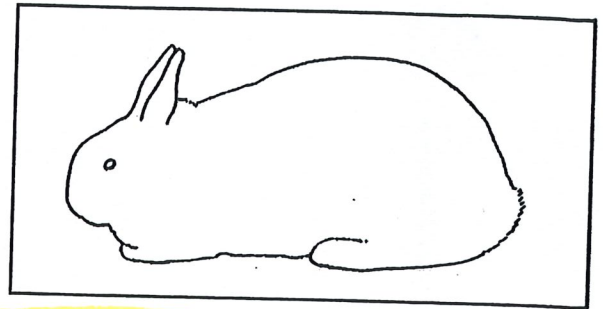
8-11

YEAR OLDS

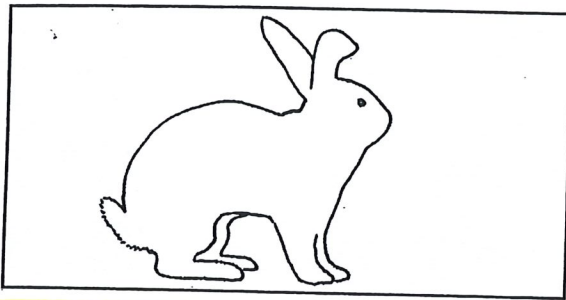
INFORMATION



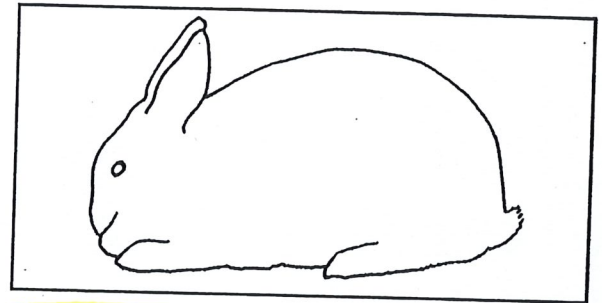
Semi-arch type



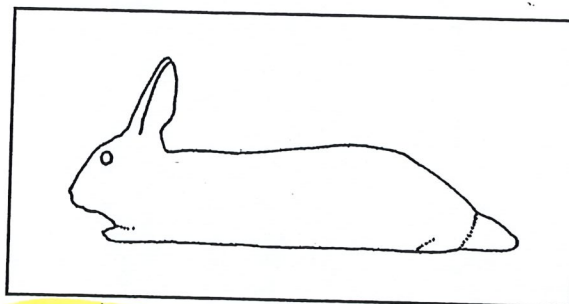
Compact type



Full arch type



Commercial type



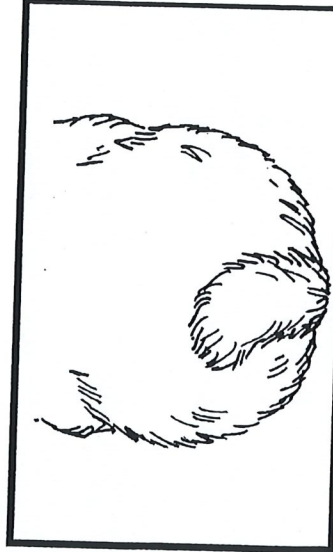
Cylindrical type

Body Types of Rabbits:

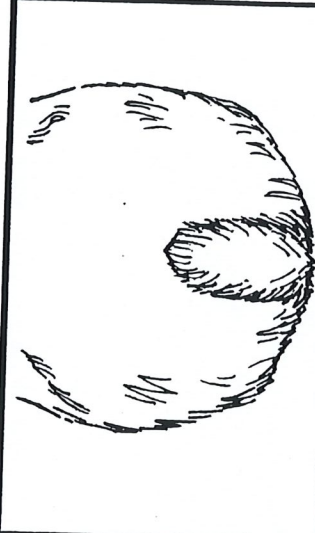
8-11 year olds

8-11 year olds

Rabbit Conformation (Tails/Ears)



Side-Carried Tail



Ideal Tail



Screw Tail



Open-Carried Ears



Belled Ears



Ideal Ears



Exploratory Learning: Educational Program

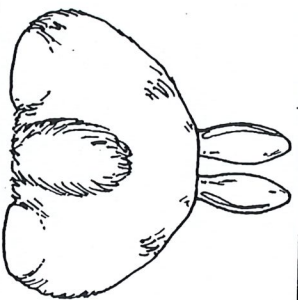
This component adapted from materials used by Judy Conrad, Extension Agent, Ohio State University Extension - Pickaway County.
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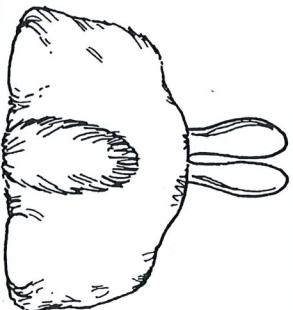
Use this poster in conjunction with **Conformation - Match the conformation description to the correct diagram situation/task statement and/or Conformation (Tails/Ears) Identification tags.**

8-11 year olds

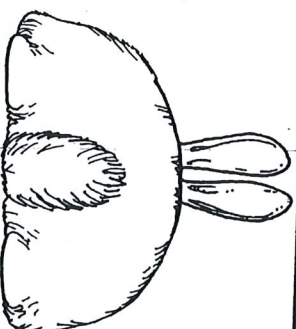
Rabbit Conformation (Hips/Legs)



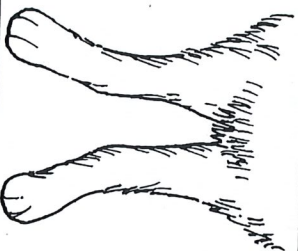
Ideal Hips



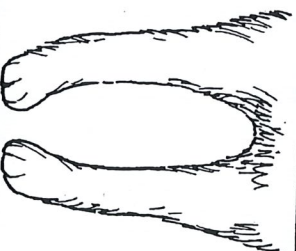
Rough Hips



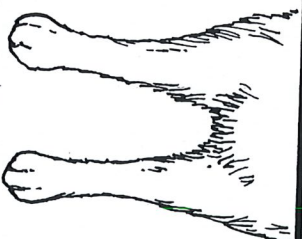
Not Enough Rise



Outward-Bowed Legs



Inward-Bowed Legs



Ideal Legs



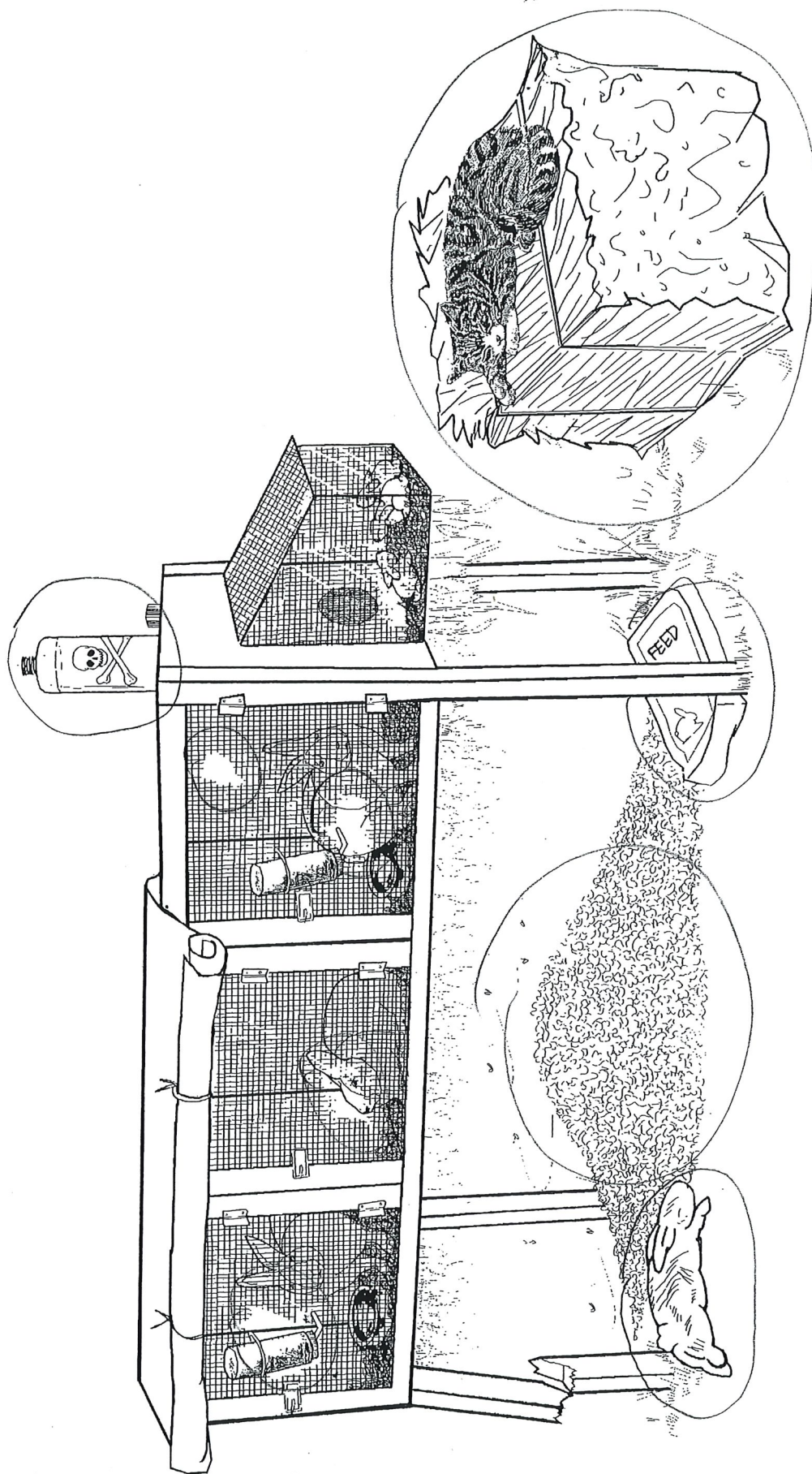
RABBIT
LEARNING LABORATORY KIT

Exploratory Learning: Educational Program
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8-11 year olds

Rabbitry Sanitation Is Critical



Exploratory Learning: Educational Program

This component developed through the creative skills and abilities of Amy Boye, Graphic Designer, Curriculum Materials Service at The Ohio State University and Donna Maruschak, Program Assistant, 4-H Youth Development, Ohio State University Extension.

Graphic property of Curriculum Materials Service.

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8-11 year olds

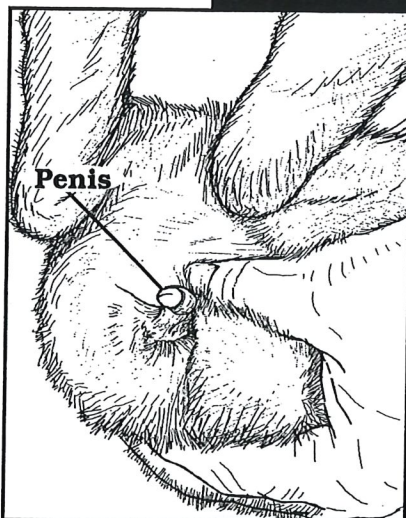
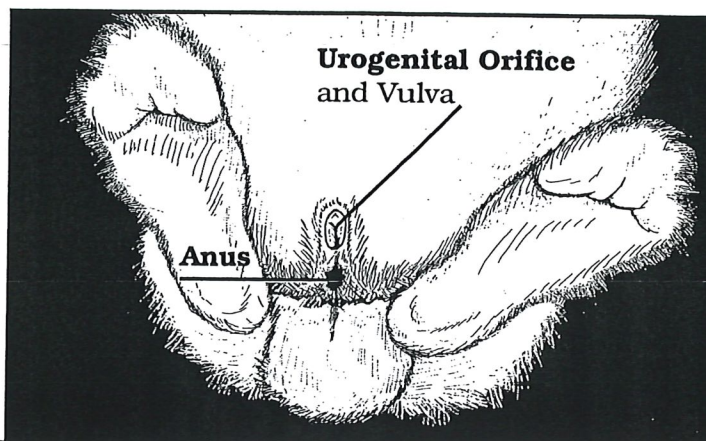
With Reproduction - Determine the gender situation/task statement, prints, and/or Gender Determination Identification tags.

Gender Determination in Rabbits



Female:

Female rabbits have a slit-like genital opening.



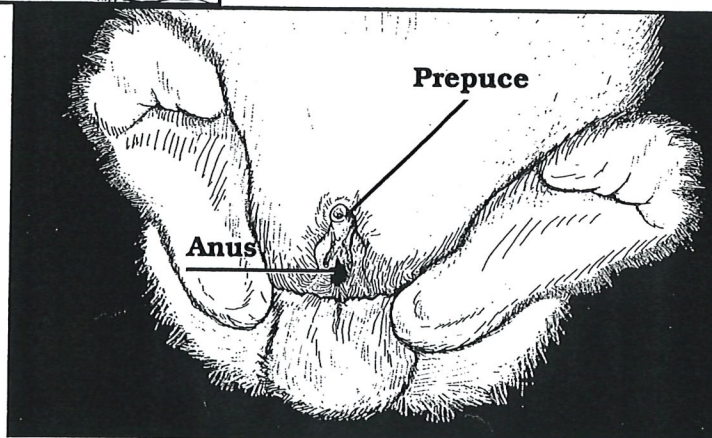
Male:

Gentle pressure around the genital opening will extrude the penis.



Male:

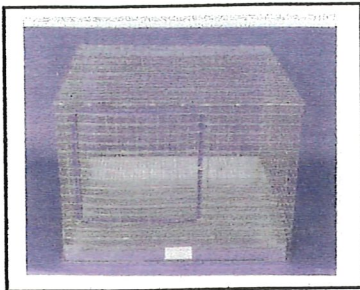
Male rabbits have a round genital opening.



***8-11 Year olds**
Identify six equipment pieces

Equipment Used (Answer Key)

Wire Cage



Hutch



Tiered Cages



Feeders



Waterers/Crocks



Carrying Cage



12-14

YEAR OLDS

INFORMATION

Fur Types: 12-14 year olds

This fur is a very short dense coat that feels very soft to the touch.

answer: *Rex*

This fur is a very long, thick hair found originally on the four Angora breeds. It also has been bred into some newer breeds of rabbits.

Answer: *Angora or Wool*

Fur Types:

12-14 year olds

This fur type is a very shiny coat of hair that is said to have sheen. Each hair shaft is hollow, causing an iridescent effect.

Answer: Satin

This fur is the most common fur found on rabbit breeds. It exists as rollback, flyback, or standing as called for in the breed standards.

Answer: Normal

Aliments & Disorders:

12-14 year olds

Ailments and Disorders



Sore Hocks (Ulcerative Pododermatitis)

Cause: Damage initially to the pad of the foot, usually followed by a bacterial infection

Prevention:

- ★ House rabbits in clean cages on soft, clean, dry bedding
- ★ Eliminate environmentally stressful conditions
- ★ Use resting boards
- ★ Cull affected animals and do not use for breeding

Common treatment:

Preparation H

- Clean sores/lesions, trim toenails, and apply topical antiseptic or protective covering
- Healing is often prolonged/complicated by secondary bacterial infections



Wry Neck (Torticollis)

Cause: Bacterial infection — An otitis interna caused by *Pasteurella multocida* — frequently no specific inner ear lesions are detected, with the cause remaining unknown

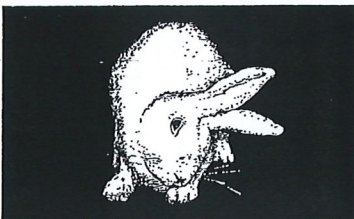
Prevention:

- ★ Cull affected individuals immediately
- ★ Quarantine new arrivals prior to herd/colony entry
- ★ Do not allow affected animals to reproduce

Common treatment:

Treatment is NOT effective

- There is NO satisfactory treatment for this condition



Snuffles (Infectious Respiratory Disease)

Cause: Bacterial infection — *Pasteurella multocida* — transmitted by direct contact between cagemates, doe and litter, and/or breeding pair — untreated may result in pneumonia

Prevention:

- ★ Adhere to strict sanitation and husbandry standards
- ★ Insure good ventilation
- ★ Follow strict culling procedures

Common treatment:

Terramycin, Enunimycin, or Baytril

- Treat at first symptom of illness
- Treat with antibiotics via drinking water or injection



Vent Disease

(Venereal Spirochetosis or Treponematosis)

Cause: Bacterial infection — *Treponema cuniculi* — transmitted by direct contact, especially during mating

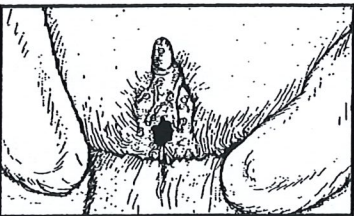
Prevention:

- ★ Examine breeding bucks and does routinely for lesions — treat affected individuals at once
- ★ Cull carriers
- ★ Maintain a closed breeding herd
- ★ Treat and quarantine new stock

Common treatment:

Penicillin G

- Treat with injectable antibiotic
- Increased possibility of enterotoxemia from penicillin exposure must be considered



Enterotoxemia (Clostridial Enterotoxemia)

Cause: Bacterial infection — *Clostridium sporforme* and/or *C. perfringens* — transmission is primarily fecal-oral route

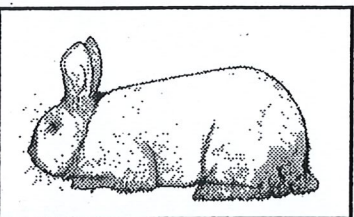
Prevention:

- ★ Implement rigid sanitation and husbandry standards
- ★ Use copper sulfate or *Lactobacillus* preparations
- ★ Change diet slowly
- ★ Feed sufficient fiber

Common treatment:

Biosol

- Change the diet: increase fiber and decrease protein
- Maintain hydration
- Maintain body temperature
- Neomycin treatments have uncertain benefits



Ringworm (Dermatophytosis)

Cause: Fungal infection — *Trichophyton mentagrophytes* and/or *Microsporum canis* — transmitted easily by direct contact with spores on hair coat, in bedding, and/or soil

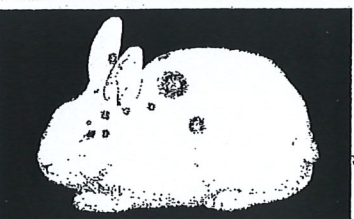
Prevention:

- ★ Maintain high standards of animal husbandry
- ★ Examine animals routinely
- ★ Cull carriers
- ★ Sterilize contaminated facilities and equipment

Common treatment:

Iodine

- Individual outbreaks — apply medication to skin: ordinary iodine or an ointment containing hexetidine
- Herd outbreaks — use griseofulvin as a feed additive or in water-soluble form



Coccidiosis (Intestinal Coccidiosis)

Cause: Protozoa — *Eimeria* spp. — transmitted by ingestion of sporulated oocysts passed in feces and found viable in soil, feed, on personnel, caging, and utensils for several months

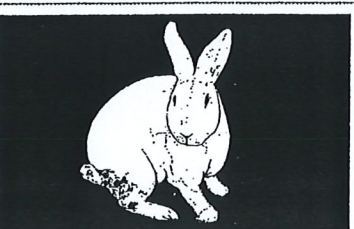
Prevention:

- ★ Employ strict sanitation and husbandry standards
- ★ Cull infected animals
- ★ Prevent contact with infected feces or contaminated food and water containers

Common treatment:

Sulfa Q

- Best prevented and/or controlled through rigid sanitation practices
- Treat infected animals with medication containing sulfaquinaxaline or monensin as a feed additive or in water-soluble form



Ear Canker (Acariasis)

Cause: Ear mites — *Oropsites cuniculi* and/or *Chorioptes cuniculi* — transmitted from infected animals or environment to noninfected rabbits

Prevention:

- ★ Carefully examine the ears of all stock every 14 days
- ★ Quarantine all new arrivals and treat twice before placing in clean herd/colony

Common treatment:

Mineral- or Vegetable Oil

- Treat (smother) with oil-based insecticide preparation
- Clean off exudate and massage 1 to 2 ml of liquid into each ear canal with a cotton swab
- Repeat treatment in 7 days to eliminate newly hatched mites
- or— Treat with injectable Ivermectin



Weepy Eye (Staphylococcosis)

Cause: Bacterial infection — *Staphylococcus aureus* and/or *Pasteurella multocida* — spread by humans and contaminated food, feces, cages, and/or bedding

Prevention:

- ★ Apply rigid sanitation methods
- ★ Eliminate sharp or abrasive surfaces
- ★ Use clean feed and bedding
- ★ Reduce animal stress
- ★ Monitor animals

Common treatment:

Tetracycline

- Clean, drain, and excise lesion
- Detected early, treat with ophthalmic antibiotic ointment
- Advanced cases have been treated with antibiotics via injection or drinking water



Mange (Sarcoptic Mange or Acarasis)

Cause: Mites — Common fur mites *Cheyletiella parasitivorax*, and/or *Listrophorus gibbus* or burrowing mites *Sarcoptes scabiei* and/or *Notoedres cati* — spread by direct contact with infected host

Prevention:

- ★ Introduce only clean stock into clean premises
- ★ Separate, quarantine, and treat infected animals until free of infestation

Common treatment:

Ecthiban or Sevin

- Minor infestations, dust animals with insecticide
- Major infestations, dip all animals in the colony in a malathion dip
- Caution: perform dipping where animals may dry in a warm and noninfected environment



Wound (Lacerations and/or Abrasions)

Cause: Injuries, bites, and scratches — Bites and scratches from other animals, and/or injuries from poor housing and environmental conditions

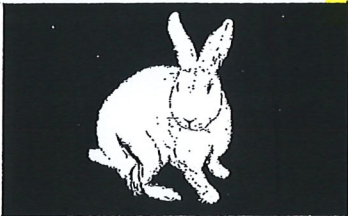
Prevention:

- ★ Maintain rabbitry equipment and facilities
- ★ Adhere to strict sanitation and husbandry standards to prevent risk of infection

Common treatment:

Blood-Stop

- Minor injury — use styptic powder to stop bleeding
- Major injury — clean, disinfect, dress, and apply pressure to laceration or abrasion to help stop bleeding



Myxomatosis

Cause: Virus — *Myxoma virus*, a DNA virus of the pox virus family — transmitted by mosquitoes, mites, flies, fleas, birds (droppings), and/or plant materials

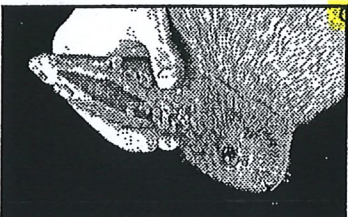
Prevention:

- ★ Control vectors (mosquitoes, flies, and fleas) by spraying and screening
- ★ Keep wild rabbits away from facilities
- ★ Adhere to strict husbandry standards

Common treatment:

NO treatment exists

- There is NO treatment for this ailment/disorder
- Eliminate all biting insects from rabbitry
- Immediate removal of affected animals is crucial



VHD (Viral Hemorrhagic Disease)

Cause: Virus — Peracute infection of *Oryctolagus cuniculus* — transmitted by direct contact with secretions or excretions of infected rabbits, or indirectly via aerosol exposure to contaminated rabbit products

Prevention:

- ★ Select VHD-free stock
- ★ Adhere to strict husbandry practices
- ★ Quarantine new arrivals prior to herd/colony entry
- ★ Conduct serologic screening

Common treatment:

NO satisfactory treatment exists

- Short-term protection is provided from a vaccine that lasts only 6 to 8 months
- Bi-yearly vaccination is recommended in epidemic areas



Malocclusion (Mandibular Prognathism)

Cause: Inherited abnormality — Inherited condition in which the incisors fail to meet and thus, grow to extreme lengths; may also result from dietary, infectious (abscesses), or traumatic reasons

Prevention:

- ★ Do not allow animals affected with this ailment/disorder to reproduce

Treatment:

- Treatment of tooth overgrowth involves repeated filing or sawing with a sharp clipper or dental burr
- Removal of affected teeth

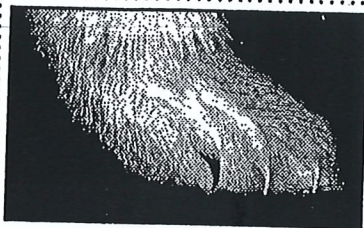


WARNING: Before any condition is treated, medications not approved (labeled) for use in rabbits or cavies must be prescribed by a licensed veterinarian familiar with the care and treatment of rabbits and cavies.

Faults and Disqualifications 12-14 year olds

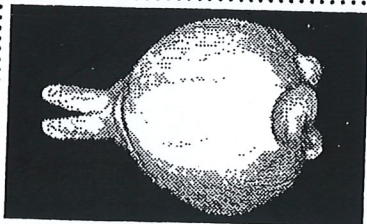


Disqualification



Unmatched Toenails

Colored toenail on a white breed
- or -
White toenail on a dark-colored breed



Wry Tail

Abnormal tail - bent, carried, or twisted permanently to one side
Corkscrew tail with one or more turns



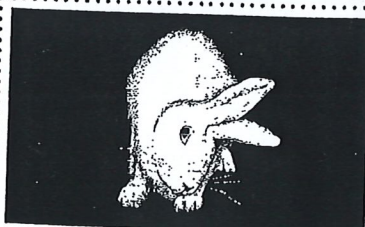
Ear Canker

Inflamed, scabby condition deep inside the ear - caused by an infection of the ear canal by ear mites



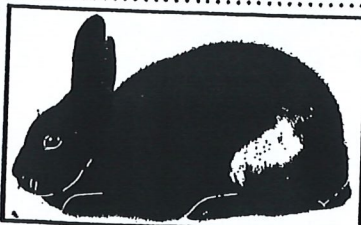
Malocclusion

Teeth with lower incisors extending in front of the upper incisors or meeting with no overlap



Wry Neck

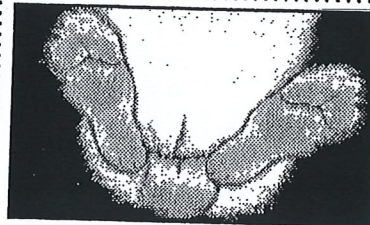
Carriage of the head to one side at an angular plane, instead of a normal carriage in a vertical plane



Foreign Color Patch

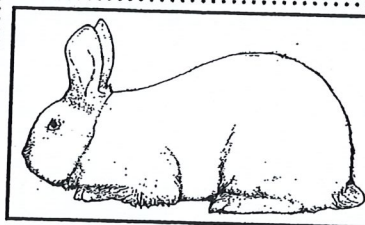
White spot in colored area of the fur coat
- or -
Colored spot in white area of the fur coat

Fault



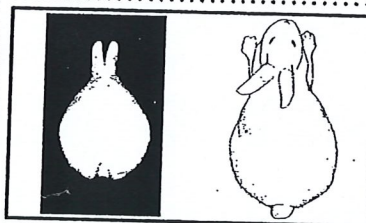
Stained Coat

Urine and/or manure stains on fur



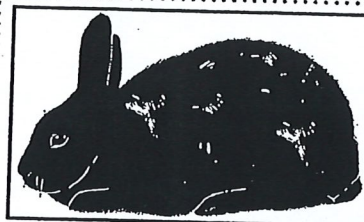
Low in Shoulders

Shoulder depth is lacking and fails to balance with the hindquarters



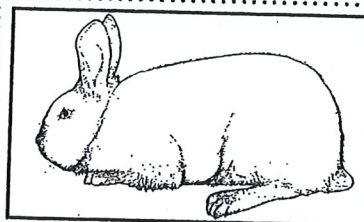
Narrow in Shoulders

Shoulder width is "pinched" and fails to balance with the hindquarters



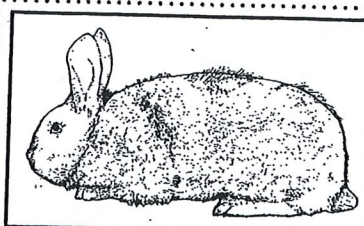
Stray Hairs

White hairs in colored fur



Cow-Hocked

Hind legs that turn inward at the hocks, causing the toes to turn outward from the body



Molt

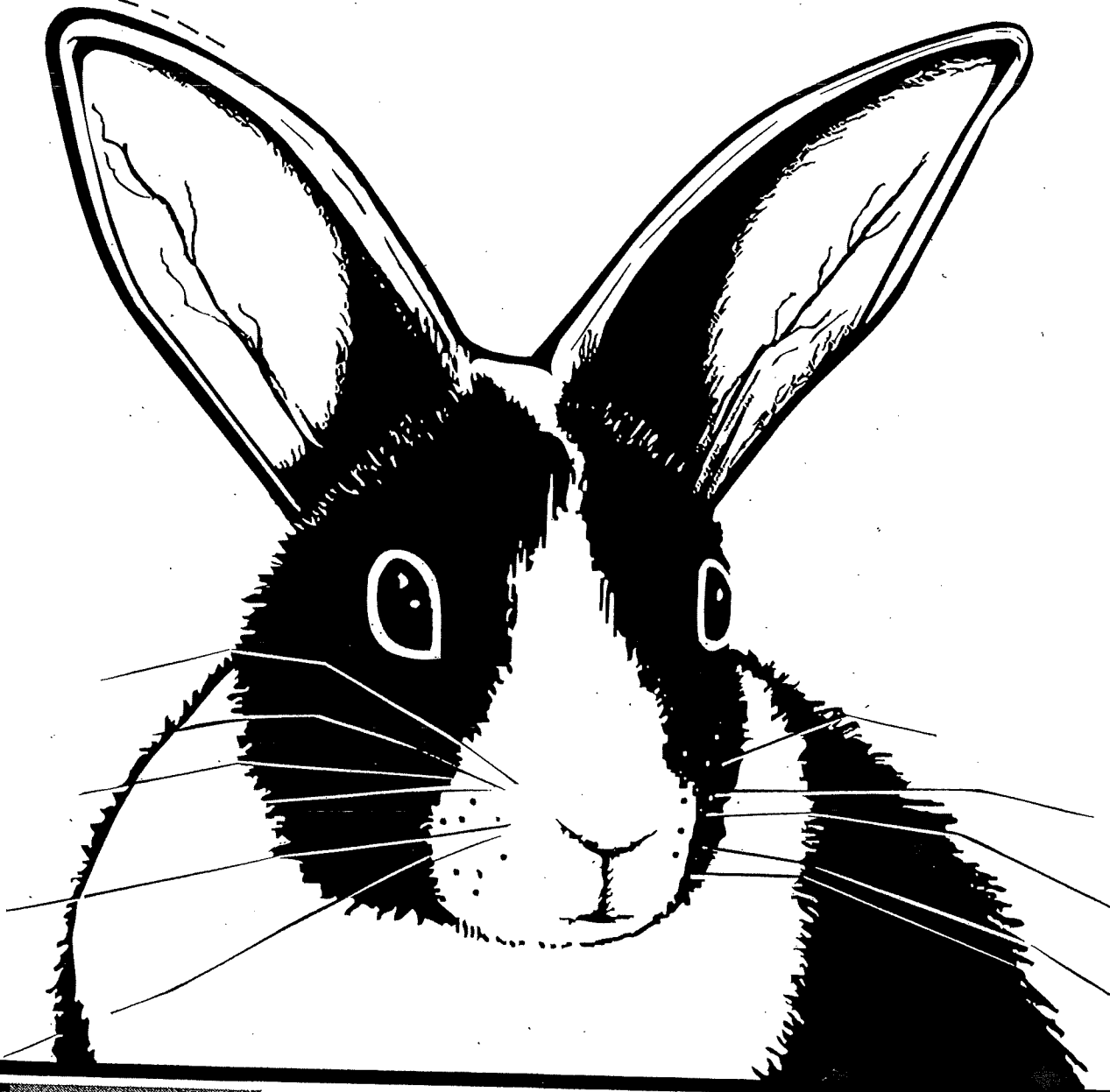
Act of shedding or changing fur

Rabbit Identification Task:

12-14 year olds

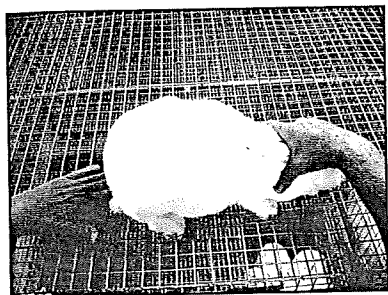
Rabbit Tattooing Template

Directions: Copy this template and cut around the outline of this rabbit and remove completely from its page. Use this template in conjunction with the **Tattoo Set, Rabbit Tattooing Procedures and Techniques** poster, and the **Preparing to Tattoo and Demonstrating Tattooing Techniques** situation task card.

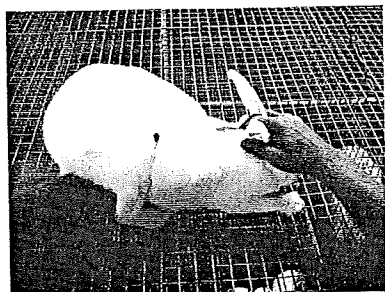
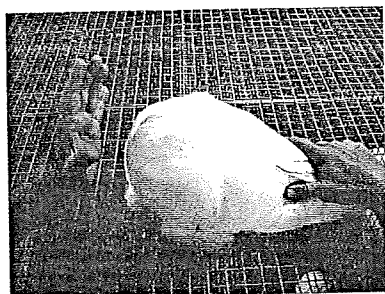


**15-18
YEAR OLDS
INFORMATION**

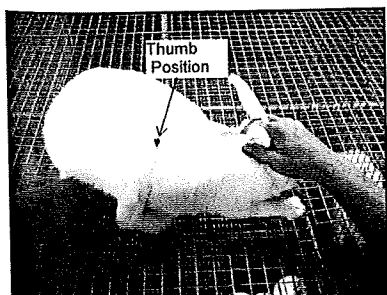
To palpate your doe, start by placing the palm of your hand flat on the surface on which you place your rabbit. Slide your hand between the hind legs keeping your hand flat and palm down.



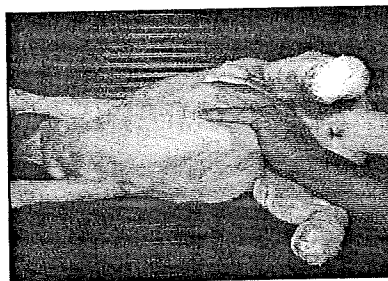
Once you have slid your hand between the hind legs and under the rabbit, flip your wrist back. This creates a saddle for the abdominal area of the rabbit.



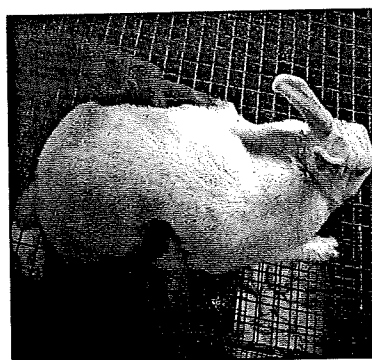
Next, flip your wrist back, with your thumb on one side and your four fingers on the opposite side of the abdomen.



After you have created the saddle, you are ready to explore the abdomen with your fingertips. If your rabbit is relaxed, you should be able to feel your fingers on the opposite side of the rabbit with your thumb. If not, relax your rabbit by gently petting her around her eyes and talking to her.

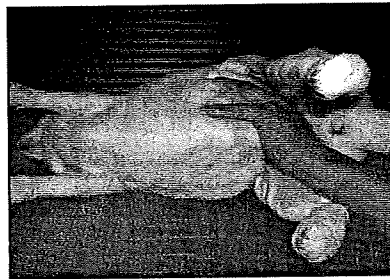


A doe that may be pregnant for the first time will have a tighter abdomen and will be harder to palpate than a doe pregnant for the third or fourth time. The 10-day-old fetus will be high in the abdominal area close to the back, yet behind the ribcage. Some does do carry their young higher and some carry them lower than others.



In palpating 14- to 17-day-old fetuses, you will find them to be lower and generally in the middle of the abdomen. The increased weight of the fetus will cause the uterus to drop and fetuses easier to find.

While palpating and exploring the front of the abdomen, you may find the kidney. The kidney will be one large mass the size of a grape, only a little firmer than a fetus. There is no need to explore any further forward as the ovaries are located just behind the kidneys.



When palpating dwarf rabbits, you will find both the 10-day-old fetuses and the 14- to 17-day old fetuses very close to the outer abdominal wall. Extreme penetration to the abdomen should not be necessary when palpating dwarf rabbits.

When palpating at 10 days, if fetuses are not detected, you should immediately rebreed your doe. This will allow you to palpate 10 days after the second breeding and 20 days after the initial breeding. At 20 to 21 days after the first breeding you are still able to detect fetuses. Shortly thereafter the embryonic membranes will be undetectable until the skull of the fetus has hardened at a time closer to kindling. This hardening of the skull will vary depending upon the nutritional value of the feed and the number of fetuses in the uterus.

(Palpation pictures and information courtesy of Purina Mills.)

Kindling

The birthing process is called kindling. All care of the doe should be taken. With the first kindling, put the doe in a nest box one day after the kindling. If the doe has not given birth, she is not producing. If she produces a litter, culling is desirable.

Before kindling, place a small amount of paper, in the nest box. If the doe does not place seven or more, and the number of kindling as she handles as possible.

Kits are born with their eyes closed. The doe will protect them with her mouth. Cause for concern is if the nest box is moved except when warm. Put the doe in the nest box when she is warm.

During the first kindling, more than normal, the doe will probably of fresh abandon. If she does not have a litter, she will not have a litter.

Do not handle the doe after birth. Make sure the doe is not frightened in the nest box. To eat the kits, the doe will eat them.

Sometimes the doe will get out of the nest box.

BREEDING DEFINITIONS

*15-18 Year Olds=

Match the TERM with the correct DEFINITION.

TERM

DEFINITION

KIT

A young rabbit not yet weaned.

OUTCROSSING

The mating of unrelated rabbits of the same breed.

CROSSBREEDING

The mating of rabbits of different breeds.

VARIETY

A division within a breed or group determined by fur or wool color.

PUREBRED

A rabbit that belongs to a recognized breed and born of parents that are of the same breed.

HYBRID

The offspring of two rabbits of different breeds, varieties, species and genera.

KINDLE

When the doe gives birth to young rabbits.

LINEBREEDING

The mating of rabbits that are descendants of the same rabbit, but are related several generations back.

Show Classes

***15-18 Year Olds=**

Match the Class Name to the Class Description

Class Name

Class Description

6 CLASS

Class in which breeds that have an ideal senior maturity weight of 9 lbs. and over.

SINGLE FRYER

Class in which a rabbit weighing a minimum of 3 lbs. and a maximum of 5 lbs. and not over 10 weeks of age on the day of show.

4 CLASS

Class in which breeds that have less than a 9 lb. ideal senior maturity weight.

MEAT PEN

Class in which three rabbits of the same breed and same variety weighing a minimum of

3 lbs. each and maximum of 5 lbs. each and not over 10 weeks of age on the day of show.

ROASTER

Class in which a rabbit weighing more than 5 lbs. with a maximum of weight of 8 lbs. and under six months of age on the day of show is entered.