

FARM SCHOOL SCHEDULE: SUBJECT TO CHANGE AT ANY TIME DUE TO WEATHER ETC

Day 1: 9:00am- Arrival/ Introduce/ Farm Tour/ Morning Chores

10:15am- **Lesson 1: All About Animals** (Domestic vs. wild) (Calves, goats, chickens, chicks, lambs and bunnies)

Take a **wagon ride** to see the deer and learn about the deer

- Learn about their habitat, dominance
 - o Size and gender
 - o Larger/ older males eat first, then younger males, then older females, finally babies
 - o Larger/ older bucks get all their mates first
- Fend for themselves
 - o Find their own food and water
 - o Don't need a farmer to provide for them
- Senses are stronger (Smell, hearing, sight, etc.) (They have a different view on people)
- Fallow deer adapt to the type of season (their hair gets thick and sheds in the spring/summer)
- Their antlers will shed fur. Also, antlers and grow new ones in spring/ early summer, they drop every year and grow new ones (they get larger and stronger as they age)

11:00am- Learn the needs of each animal, what they give us (go over chores and how we take care of each animal)

- Relationship with the animals
 - o Need a farmer to feed, water and provide shelter
 - o Babies are mainly born in the spring but can be born whenever
 - o Each farm animal eats grains/ grass and need water
 - Lambs are good for meat or wool
 - Cow are good for meat or milk
 - Goats are good for milk
 - Chickens are good for meat (broilers) or eggs (layers) and feathers (both)

12:00am- Wash hands and Lunch time

12:30pm- Animal Trivia (treats for questions)

- What are our goats used for? Milk
- What is the difference between the layers and broilers? Broilers= are meat birds & Layers= provide us eggs
- When the deer lose their antlers? Spring/ Early Summer
- Which animals give us dairy? Goats and Dairy cows
- Which animals can keep us warm? Lambs (wool makes blankets, coats, socks, mittens, etc.

1:00pm- Make Tie Die t-shirt

- Pre-washed t-shirts
- Kids take home and wash them so they can wear them in the week (extra group)- free time for tire mountain

Materials:

- o Work space (plywood)
- o T-shirts
- o Tie dye
- o Elastic bands
- o Gloves

2:00pm- Learn how to milk a goat and try (30 mins)

- Water in gloves and attach to wooden cow (extra group) learn to rope a steer (30 mins)

Materials:

- o Wooden saw
- o horses
- o Cow heads
- o Ropes

Materials:

- o Wooden cow
- o Gloves
- o Water
- o Binder clips

3:00pm- Afternoon Chores

3:30pm- Review of our lesson

Day 2: 9:00am- Arrival/ Morning Chores

10:15am- Lesson 2: All About Soils & Plants//Seeding pumpkins/ squash and cucumbers

- Lesson on each soil and seed (will have examples of each soil and seed labeled)
 - o Types: Grains= oats, wheat, barley, corn
 - o Types: Fruits= raspberries, strawberries, blueberries, cranberries, chokecherries
 - o Types: Vegetables= beans, tomatoes, potatoes, carrots, peppers, cucumber, pumpkins, squash, melons
 - o Learn about irrigation
 - Watering each seed
 - Fill water buckets to water seeds
 - Drip tape will be put out under the soil and leak so the seeds get more water
 - Lesson on how to water and what is too much or too little
 - o 3 main types of soils= clay soil, sandy soil, loam (garden soil)
- What you need in soil and what shouldn't be
 - o Good= fertilizers, organic matter (dead plants, animal tissues) these matters decompose, give nutrients to the plants,
 - o Microorganisms help break down the organic matter into basic elements, which enables plants to absorb it and use it
 - o Bad= trash, plastic, pests, diseases, chemicals
 - o You can improve organic matter by adding eggshells, small amounts of compost, and bird poop

10:45am- Explain how seeds grow and plant seeds in field (even if nothing is happening above soil lots is under soil)

- o Roots will produce first and then the plant will grow and produce flowers in the spring/ summer and the fruit, veg or grain will be available

12:00am- Wash Hands and Lunch time

12:30pm- Plant beans

- In bags and leave until Friday

1:00pm- Create a stepping stone

- Mix 10 concrete buckets (partners)
- Collect materials for stones in brown bags

3:00pm- Afternoon Chores

3:30pm- Review of our lesson

Materials:

- o Seeds
- o Water
- o Buckets
- o Sticks
- o Cups to pour water

Materials:

- o Bags
- o Bean seeds
- o Marker
- o Water (in pitcher)
- o Soil (bucket)

Materials:

- o 3 bags of Quick-crete
- o Water
- o 10 buckets
- o 10 stir sticks
- o 20 molds
- o 20 pieces of plastic

Day 3: 9:00am- Arrival/ Morning Chores

10:15am- **Lesson 4: All About Nature & the Wild**//Nature walk and purpose of nature (poison ivy, raspberries, Nutella tree)

- Types of trees= aspen, poplar, saskatoon berry, choke cherry, black poplar, spruce
- Tell the difference between poison ivy
 - red stem
 - 3 leaves
 - leaves have rough edges
- Raspberries grow in shrubs, they would be flowering at this time
- Nutella tree grows hazel nuts
- Baby tree is called a sapling
- Generally, fruits grow low to the ground (shrubs) and nuts grow high on trees
- Dead Trees= wood peckers make holes and bugs live in them
- Low spots are called a sloop (too much water for trees (some trees end up dying))
- Bees pollinate plants to make them grow (Plants need bees to pollinate in order to keep growing)
- Plants need dirt, humus, manure and rocks/ sand
- Dandelion salad, collect mint for tea
 - (explain how you can eat certain foods and others you cannot)
- Collect materials for stepping stones

10:45am- *Bring snack out with us*

- Dandelion salad
 - Wash leaves with water

Materials:

- 2 g bucket of water
- Salad dressing
- Bowls (1 large, 25 small)
- Forks

11:00am- Wilderness survival

- If you are stuck in the wild first collect twigs, branches, leaves, and locate water
 - Make camp by water (to drink) (you can boil water to be able to drink), build a shelter with branches against trees, and start a fire with twigs and leaves.
- In the back building a fort (shelter from the weather)
 - Get out of rain, sun, wind

12:00pm-Fire Safety and making/ Lunch/ Make bannock

- *Bring a lighter, roasting sticks, food*
- Make in the back
 - Bring ingredients with and have them ready to go (flour and water)

Materials:

- Wood
- Lighter
- Fire pit
- Twigs
- Paper
- Roasting sticks
- Bannock mix (flour, baking powder, salt)
- Butter
- Water (for mixing)
- 5 g bucket of water
- Cups
- Measuring cups

1:30pm- - Scavenger hunt

- There will be 10 clues to learn about the farm
- The kids must work together to finish the hunt
- Clues include the farm animals, crops, barn, hay bales, wagon rides and duck race

Materials:

- Hunt cards

2:00pm- Paint bird houses

- Wooden bird houses/ paint

3:00pm- Afternoon Chores

3:30pm- Review of our lesson

Materials:

- Wooden houses
- Paint
- Brushes
- Lids
- Garbage bags to cover table

Day 4: 9:00am- Arrival/ Morning Chores

10:15am- Lesson 3: All About Weather// Weather vs. Climate

- Walk to the floodway (hike) (down the road or at the back of the farm)
- Why the floodway gets higher and lower over the course of the year?
 - o When the snow melts (a fast spring melt)
 - o too much snow from the winter causes flooding
 - o lots of rains causes flooding
 - o fast spring melt= higher temps.
 - o All at once and melts too quick
 - o if Manitoba government thinks the city will flood they open the flood gates to redirect the water around the city instead of going through the Red River which flows through the city
 - o Water always flows from South to North (the water ends up in Hudson's Bay, Northern Manitoba)
- What is weather and what is climate?
- Walk to the floodway (hike) (down the road or at the back of the farm)
 - o Conditions that change in minutes, hours and over a day, average weather in a place over many years
- What time of season is used for what
 - o Planting/ spring, growing/ summer, harvesting/ fall, hibernation/ winter
- Create sun clocks and how to tell time by the sun

11:30pm- - Wash hands and Lunch time

12:00pm- Head to Miracle ranch for horseback riding @12:30pm

- 15 minutes of introduction inside
- 25 minutes of riding along the trail
- 1 adult with children
- 1 adult with party pony to guide the pony

1:00pm- Second group will head over for ride at 1:30pm

- 15 minutes of introduction inside
- 25 minutes of riding along the trail

(Extra group) Make slime

2:30pm- Free time

- Tire mountain
- Fort frontier/ duck races

3:00pm- Afternoon Chores

3:30pm- Review of our lesson

Materials:

- o Sticks for sun clocks

Materials:

- o Borax
- o Water
- o Glue
- o Food colouring
- o Cups
- o Stir sticks (outside or popsicle)
- o Garbage bags to cover tables

Day 5: *NO LUNCH FOR TODAY*

9:00am- Arrival/ Morning Chores

10:15am- **Lesson 5: All About the 5 Kingdoms**// the 5 Kingdoms and Pond science

Take a wagon ride to the deer preserve

- 3 domains= Eukarya, Bacteria, Archea
- 5 Kingdoms= Bacteria, Single cells, Fungi, Plants, Animals
- Animal kingdom is divided into vertebrates, and invertebrates
- We have mammals
- Flight- forces acting on objects in flight (drag, thrust, gravity, lift)
- Everything is connected, the animals we eat, plants we eat, plants animals eat
- **Good microscopic organisms**= Rumen microflora, Rhizobioa (nitrogen fixing nodules on most legumes)
- **Bad microscopic organisms**= (Clash with kingdoms) = Disease> liver flukes> deer> part of lifecycle in aquatic environment> live in snails> transfer to deer when they drink water
- **Why it is important to respect kingdoms**
- Go to the pond in the deer preserve
 - What we find in our water
 - How we treat it
 - How to water can affect the deer
- Prey and Predators
- What you can see and what you can't see/ harmful to your body

11:00am- Snack time back at the farm store

11:15am- Back to the Farm store for microscope viewing

- 2 microscopes with dirt water to view the bacteria

11:45am - Picnic lunch

- Start a fire
 - Build your tepee using stronger branches and add kindling under (also have space for newspaper)
 - Make boiled eggs in a bag over the fire
 - 1 egg per kid (Add cheese, pepper, salt, ham)
 - Make banana boats (chocolate chips, marshmallows)
- (waiting= sponge water race, wheelbarrow race, spoon race, potato sack race)

2:00pm- Milk a goat for certificate

- Every kid must try to milk the goat
- Help keep her still with feed

(extra group) Make bird seed feeders

- Pine cone bird feeders

3:00pm- Afternoon Chores

3:30pm- Review of our lesson

4:00pm- Graduation certificate

Materials:

- 2-3 jars for water
- 2 microscopes
- Slides
- Eyedroppers

Materials:

- Eggs (1 each)
- Ham
- Cheese
- Bowls
- Forks
- Lighter
- Wood
- Paper
- twigs

Materials:

- Pine cones
- Bird feed
- Peanut butter
- Pan