



# CONNECTING \*\*\*\*\*\*\* YOUTH, FARMS & FOOL

Little Farmers Agriculture Adventure and Activites Guide



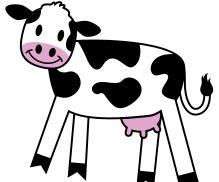








## Little Farmers Connect the Dots





### What Is The Water Cycle?

The water cycle is the journey that water makes in its life, from one place to the other, and from one state to the other. As the word 'cycle' suggests, there is no starting point. This means that we can begin at any point and follow its path until it gets to where we started again.

### The Water Cycle



The water cycle is made up of 4 primary stages:

- 1. Evaporation & Transpiration
- 2. Condensation
- 3. Precipitation

4. Runoff & Infiltration

**Sun** - The sun is the source of all energy on earth and powers the water cycle.

Water Vapor - The part of the water cycle where water is suspended in the air or is steam and humidity. Soil particles are

**Clouds** - form when water vapor condenses but is still in the air.

Rain - is moisture from clouds that become to heavy and falls to the earth as a liquid.

Erosion - is caused by falling rain where soil is unprotected by vegetation. Soil particles are suspended in water run off.

Lakes - collect water from streams, rain run off, and ground water. It is evaporated by the sun starting the cycle all over again.

Plants - take water in through the roots and evaporate water into the atmosphere through its leaves by a process called Transpiration.

### Where does your

# Cheese Burger come from?

Do you know where the things you eat, wear and build with start out?

#### WORD BANK

Wheat Onions

Cucumbers
Tomatoes
Tomatoes

Eggs Lettuce Cattle Farms, fields and forests produce our agricultural products. Most of these products must be processed in some way before we can use them. Processing changes raw agricultural products into thousands of things we use every day. Think about a cheeseburger, for example. The parts of a cheeseburger come from many different raw agricultural products.

**Lets Build a Burger!** – From the words in the word bank, choose the name of the agricultural product that is the source of each part of the cheeseburger. Write it in space below.



### How do fruits & vegetables grow?

Fruits and Vegetables come in lots of different shapes and sizes. They even grow in very different ways.

#### **Tap Root or Root**

**Vegetables:** are one big root that grows down in the ground and has smaller roots that come out of it. Some examples of root vegetables are potatoes, carrots, radishes, beets & turnips.

**Ground Sprouts:** grow up above the ground with strong roots holding them up. Some examples are leeks, broccoli, cauliflower, lettuce, cabbage, brussels sprouts & corn.

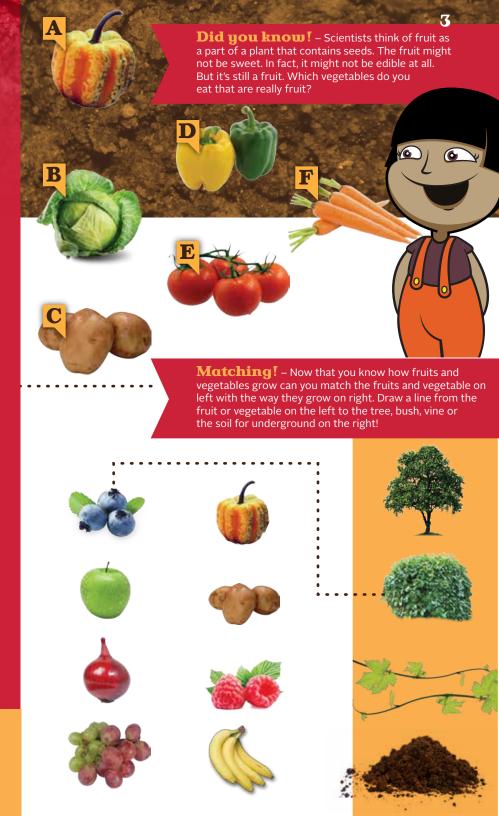
Vines Plants: grow long tubular structures that sprawl out and are flowering plants in which the fruit of vegetable then grows from the flower. Some examples of vine plants are grapes, pumpkins, kiwi & peas.

**Bushes:** woody multiple stemmed plants that are low growing. Examples of bush plants are tomatoes, peppers, eggplants and raspberries.

**Trees:** woody plant having one stem(trunk) and at least 3" in diameter with a crown of leaves at least 4 ½ ' above the ground. There are only fruit trees. Examples of fruit that grow on trees are apple, pear, almonds and coconut.

**Vegetables:** are plants that are cultivated for food.

**Fruits:** the part of a plant that has seeds and flesh. MOST fruits are sweet and can be eaten raw.



# What names do we use for livestock?

Fill the chart with the names Who are you? you learnedabout each specie in the animal barn! WORD Cattle **Pigs** Sheep BANK Mother's Name **BOAR BUCK** BULL **Father's Name CALF** COW DOE **FWF** KID Newborn Name **LAMB PIGLET RAM** SOW **Days Pregnant** 114 150 283

# Farm Machinery

Take a look at these amazing tools that farmers use to grow and harvest crops!

#### Match the photos of the Farm Equipment with their names

\_\_Combine \_\_Semi Truck \_\_Sprayer \_\_Planter \_\_Silo \_\_Tractor













### Soybean Scramble

### Maize Maze

#### Soybean Scramble

Unscamble the following list of items that contain soybeans!

What food products are made from soubeans?

#### **RACOYNS**

**LTPASIC** 

**KIN** 

**DCEASNL** 

\_\_\_\_\_

soybeans from the field?

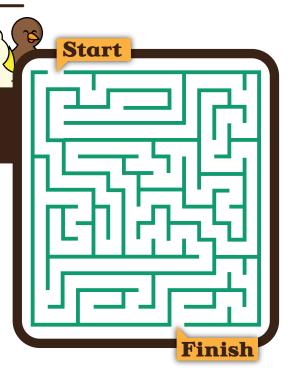
What machine is used to harvest

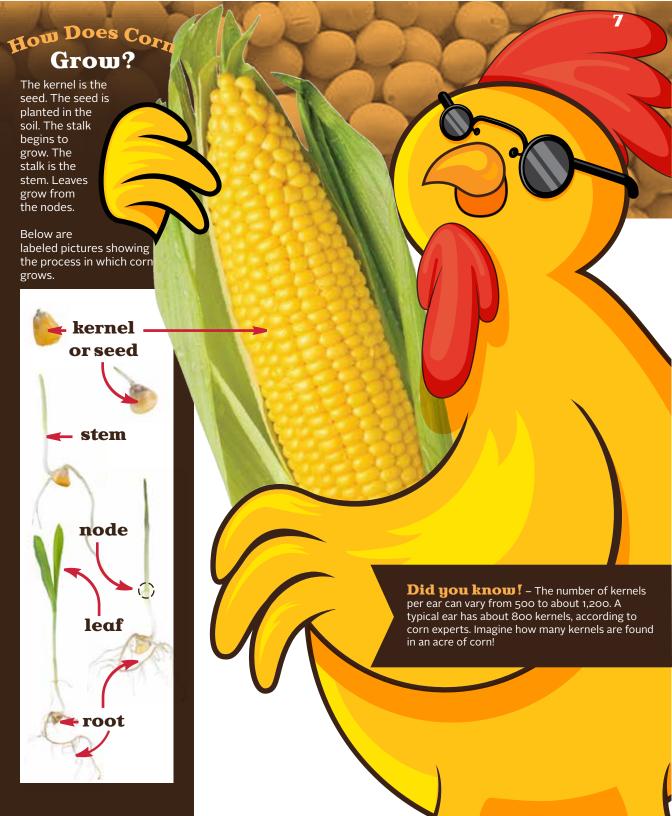
When are soybeans planted?

#### **EENRSCUNS**

Maize Maze! Help the chicks find their ways through the Maize Maze and return to the chicken coop.

- Corn is called maize by most countries, this comes from the Spanish word 'maiz'.
- An ear or cob of corn is actually part of the flower and an individual kernel is a seed.
- Corn will always have an even number of rows on each cob.
- As well as being eaten by the cob, corn is also processed and used as a major component in many food items like cereals, peanut butter, potato chips, soups, marsh mallows, ice cream, baby food, cooking oil, margarine, mayonnaise, salad dressing, and chewing gum.









The plate method is a simple way to learn healthy portion sizes.

Just split the plate into 3 parts, the largest part for vegetables.

Note to adults planning meals for smaller children: Remember to use a smaller plate or serve smaller portions if you don't have different plate sizes.

Your hand can help you measure the right amount of food to eat.

Use your hand to measure out portions



Palm of Hand Amount of lean meat

#### **A Fist**

Amount of rice, cooked pasta, or cereal





**A Thumb** Amount of cheese

#### Thumb Tip

Amount of peanut butter



### **Places We Get** Food From

Match the definition to the place food might originate, be processed at or come from.

\_\_1. Bakery \_\_\_3. Cheese Factory \_\_\_5. Processing

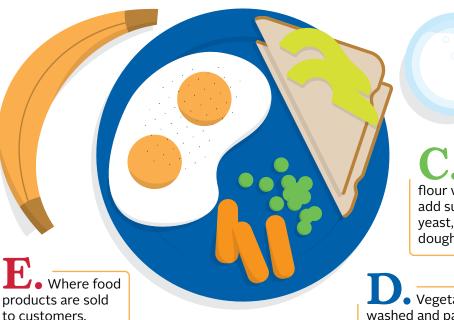
**Plant** 

2. Store

4. Orchard

Fruit trees produce apples, bananas, cherries and oranges.

Where milk is processed, cheese is aged and packaged here.



Mix the flour with water. add sugar and yeast, knead the dough and bake.

Vegetables are washed and packed here.

## Minnesota Growing Areas

Match the images to the place our food or products come from. Draw a line from the image to the area on the map.



SOYBEANS



PAPER



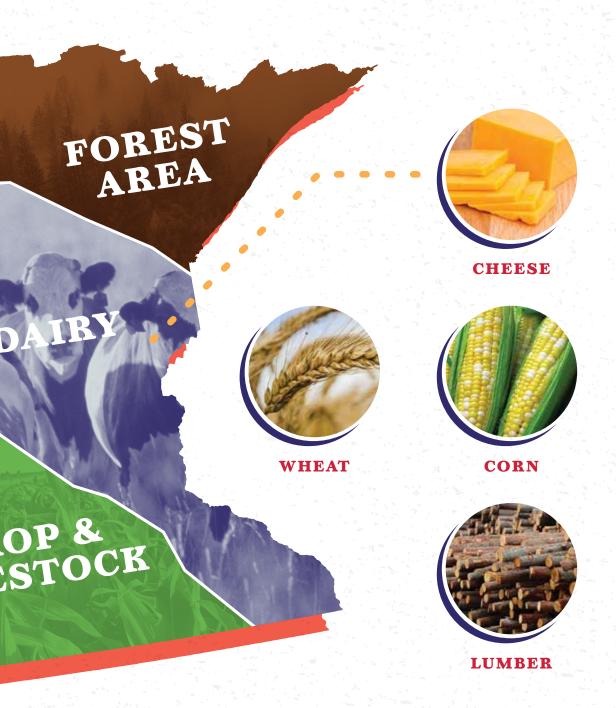
**SWINE** 



MILK

RED RIVER VALLEY CASH GRAIN









### HOW MY SEED GROWS

UT ON DOTTED LINE

#### Keep track of your seed as it grows!

After you plant your seed, measure and write down the DATE and HEIGHT as it grows ②







