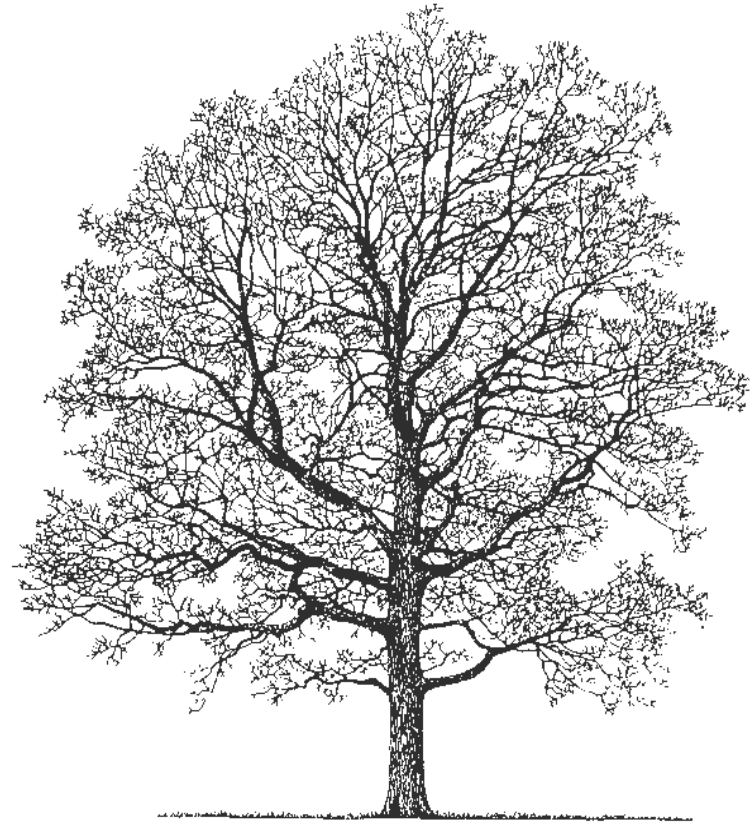
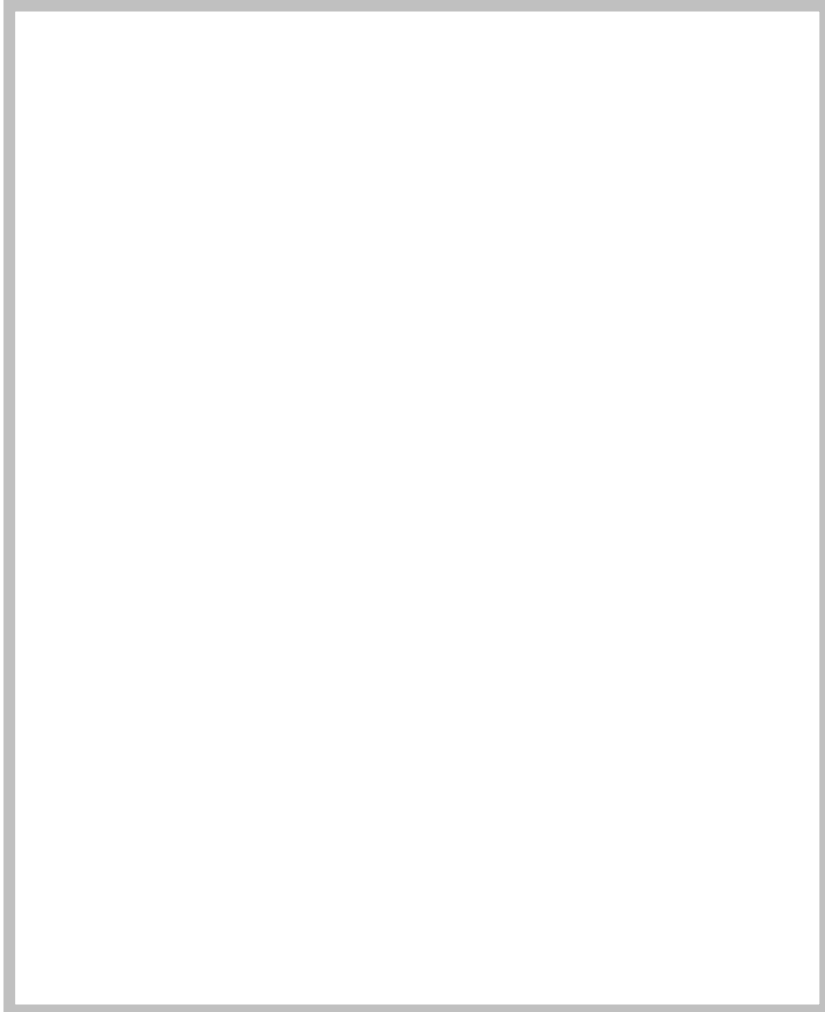


I love going outside!
Do you know what I like best?
Here is a picture -
See if you can guess!



Bird and Sky Neighbor

Date: _____ Time: _____

Weather Study

Spring Summer Autumn Winter

Describe the Weather:

Temperature	
Wind Speed and Direction	
Clear or what kind of clouds	
Rain, snow or other moisture	
Time of Sunrise	
Time of Sunset	

How does the weather feel to you?

Circle the words and write your own.

Dusty

Muddy

Boiling

Freezing

Chilly

Awful

Crusty

Dewy

Dry

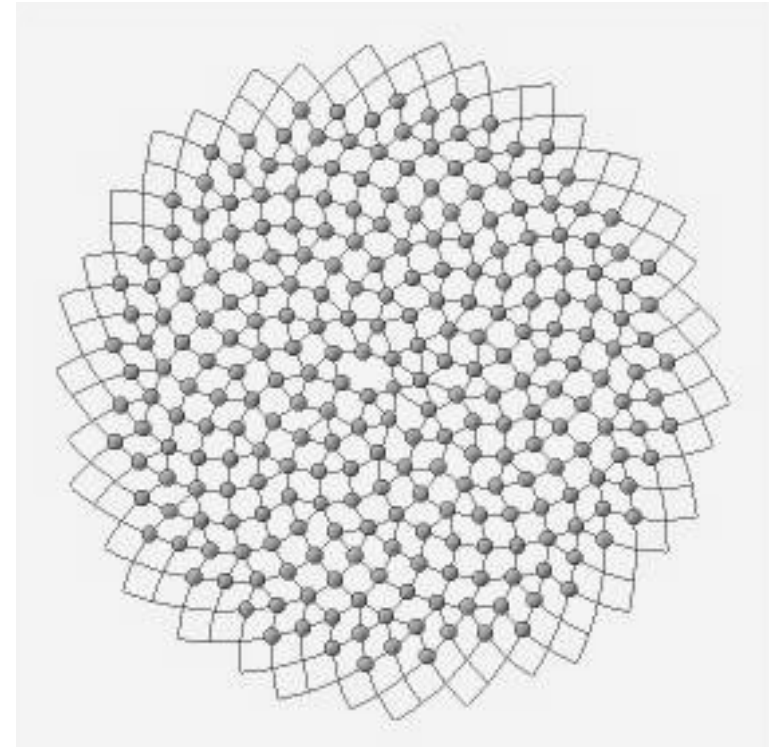
Frosty

Nice

Hot

Pleasant

This is your book to keep. Take notes, draw, check or write anything you want in your book.



This booklet was provided by:

The Brenton Arboretum

25141 260th St

Dallas Center, IA 50063

515-992-4211



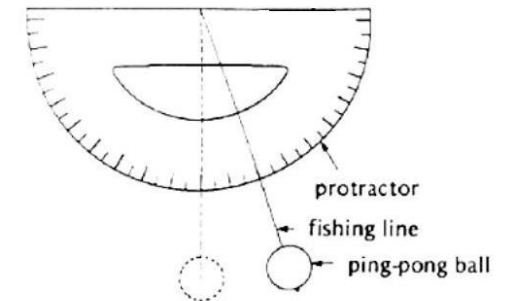
Bird Behavior Bingo

Make an X on the picture when you see birds showing these behaviors.

Can you find three in a row?

How fast is the wind?

Use the protractor and ping-pong ball in your backpack to determine how fast the wind is blowing.



Anemometer Formula			
Angle	Wind Speed (miles per hour)	Angle	Wind Speed (mph)
0	0	30	15
5	6	35	17
10	8	40	18
15	10	45	19
20	12	50	21
25	13	55	22

Prairie Sounds:

Sit in the prairie with a partner and quietly make a list of things you hear. Rustling grass, bird songs, insects or water rushing, can you make a list of 10 different sounds?



_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Bird Banter

Try to copy the bird songs that you hear. Sometimes birds will return the call or will fly closer to you.

- Blue Jays** - "Jay, Jay, Jay"
 - Crows** - "Caw. Caw. Caw"
 - Barred Owls** - "Who cooks for you?"
 - Bob White or Quail** - "Bob, Bob, White?"
 - Rufus sided Tohee** - "Drink your Tea"
 - Chick a Dee** - "Chick a Dee, Dee, Dee"
 - Robin** - "Cheer-up, cheerily, cheer-up cheerily"

 - Sphishing** - "SP-sh-sh-psh-sh-sh-sh"
- Repeated spishing calls can bring curious birds close to the caller.

Bird Call Hide and Seek

Choose one person to be the "bird," everyone else is a birdwatcher. The birdwatchers cover their eyes and count to 10. The "bird" hides and makes a birdcall. Birds always move around - calling and hiding - so be quick! Try to reach the nest before the birdwatchers catch you!



Find pictures in the clouds.

What is moving in the wind?	Where	Wind speed?	What part was moving	Other comments
Bird	In a Tree	12 MPH	Feathers were blowing	This bird was almost blown off the branch

hi



Look in the prairie for
seeds that will be
scattered by the wind.



Carefully hold some seeds in your hand and
let the wind blow them.

Have a seed race – who has
the seed that will go
the farthest?

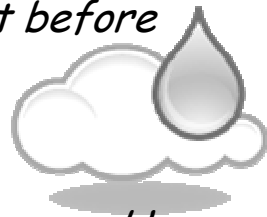
Will it rain today?

Plant watch:

Chickweed, dandelions, morning glory, wild indigo, clovers, and tulips all fold their petals before it rains.

Bird Watch:

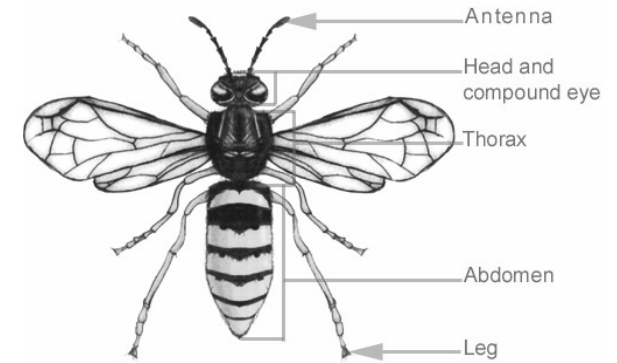
Birds become very quiet before a rain storm.



Animal Watch:

Herding animals, like cows and horses, will huddle together before a storm.

Sit on a protected porch and notice how nature changes before a storm.



Go on an Insect Safari!

1. Use the insect boxes in your backpack
2. Look for bugs
3. Carefully put the bugs in your box, and use the magnifying lid to look closely
4. Write down what you know about your bug

Go on another safari!

Grass Safari Tree Safari Wetland Safari

Remember an insect has:

6 legs - Antenna - Head - 3 Body Parts

Maybe wings, maybe no wings

Forecast the weather

Watch the sunrise or sunset

Red or Pink Morning Sunrise

Rain or storming are highly likely. High sky humidity causes the atmosphere to appear red.

Red sky in morning; sailors take warning.

Red sky at night; sailors delight.

Red or Pink Evening Sunset

Rain or storming are not likely for the following 24-36 hours.

Take a blank page and color a beautiful sunset or sunrise.

Make an X when you find:

Yellow flowers _____

Grass or flower seeds _____

Animal trail or tracks _____

A nest _____

Plant growing on a tree _____

6 legged insect _____

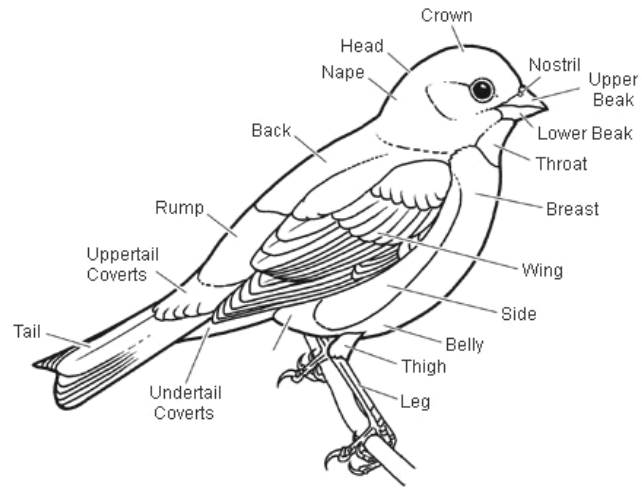
Bird in the grass _____

Grass stems from last year _____

Spider web _____

Heart-shaped Leaves _____

Bird Anatomy



Use your binoculars and describe a bird.

Part of the bird	Color
Crown	
Beak	
Back	
Belly	
Rump	
Tail	
Leg	