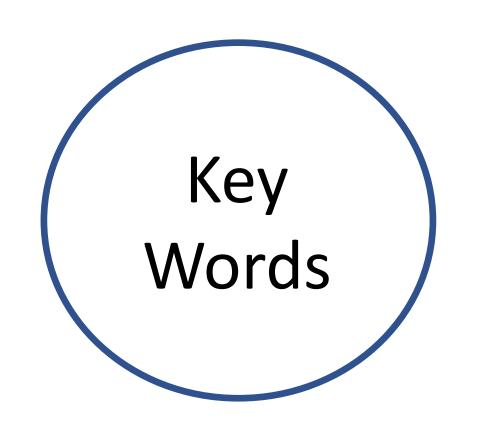
# Circle, Underline, Share Your Articles





Prepare to Share

# What is phenology?

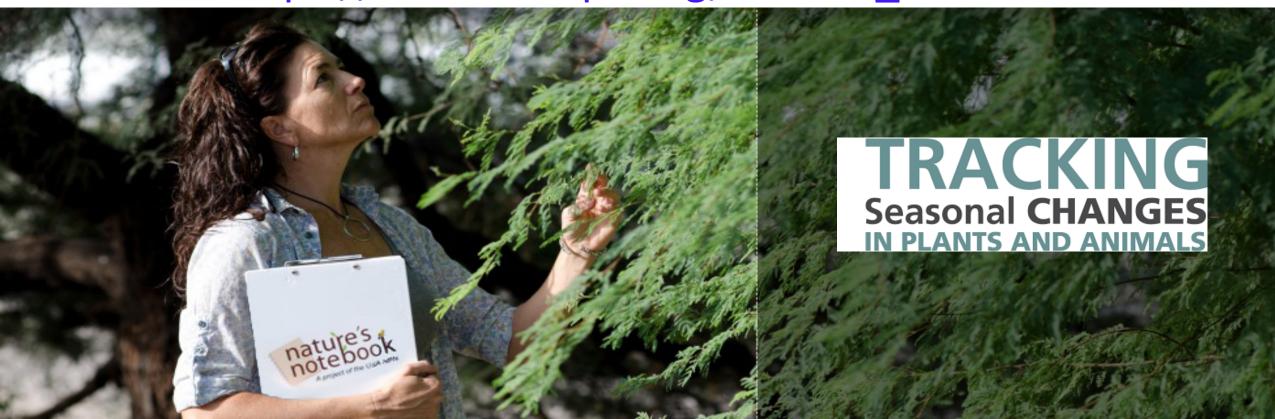
Recurring plant and animal life cycle stages and their timing and relationships with weather and climate.







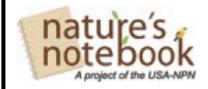
https://www.usanpn.org/natures\_notebook



## PICTURE-BASED DATA SHEETS

# NAME **DESERT WILLOW** Circle what you see! **FLOWER BUD FLOWER FRUIT LEAVES**

## **BEGINNER DATA SHEETS**



Scientific Name: Chilopsis Linearis

Nickname: Desert Willow Tree

Site: John B. Wright Elementary

Date: \_\_\_\_\_

Observer:

Do you see	Phenophases				
Leaves?	Y N ?				
Flowers or Flower Buds?	Y N ?				
Fruits?	Y N ?				

naturesnotebook.org

### INTERMEDIATE DATA SHEETS



Scientific Name: Chilopsis Linearis

Nickname: Desert Willow Tree

Site: John B. Wright Elementary

Date:

Observer:

Do you see	Phenophases			
Young leaves?	Y N ?			
Leaves?	Y N ?			
Colored leaves?	Y N ?			
Falling leaves?	Y N ?			
Flowers or flower buds?	Y N ?			
Open flowers?	Y N ?			
Fruits?	Y N ?			
Ripe fruits?	Y N ?			
Recent fruit or seed drop?	Y N ?			

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Scientific Name: Chilopsis Linearis

Nickname: Desert Willow Tree

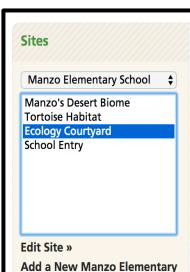
Site: John B. Wright Elementary

Date: \_\_\_\_\_

Observer:

Do you see	Phenophase	Circle the Value			
Young Leaves?	Y N ?	Less than 3 3-10 11-100			
(small, just unfolding)		101-10,000 More than 10,000			
Leaves?	Y N ?	Less than 5% 5-24% 25-49%			
		50-74% 75-94% 95% or more			
Colored Leaves? (brown or yellow)	Y N ?	Less than 5% 5-24% 25-49%			
		50-74% 75-94% 95% or more			
Falling Leaves?	Y N ?	Have leaves recently fallen off?			
Flowers or Flower	_	Less than 3 3-10 11-100			
Buds?	Y N ?	101-10,000 More than 10,000			
Open Flowers?	Y N ?	Less than 5% 5-24% 25-49%			
		50-74% 75-94% 95% or more			
Fruits? (long,	Y N ?	Less than 3 3-10 11-100			
slender green or tan bean)		101-10,000 More than 10,000			
Ripe Fruits?	Y N ?	Less than 5% 5-24% 25-49%			
(brown, opening to show seeds inside)		50-74% 75-94% 95% or more			
Fruits or Seeds on	Y N ?	Less than 3 3-10 11-100			
the ground?		101-10,000 More than 10,000			

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School Site »

### **My Plants & Animals**

Barrel Cactus 1
Creosote Bush 1
Ocotillo 1
saguaro-1
scarlet globemallow-1
Engelmann's hedgehog cactus
netleaf hackberry-1
jojoba-1
desert marigold-1
sacred thorn-apple-1

Add or Edit Plants »
Add or Edit Animals »
Sort Plants & Animals »

broom snakeweed-1

**Print Field Datasheets »** 

#### **Details for this Organism**

Barrel Cactus 1

candy barrelcactus (Ferocactus wislizeni)



View Species Profile »
Print Field Datasheet »
Print Phenophase Definition
Sheet »

#### **Enter Observations**

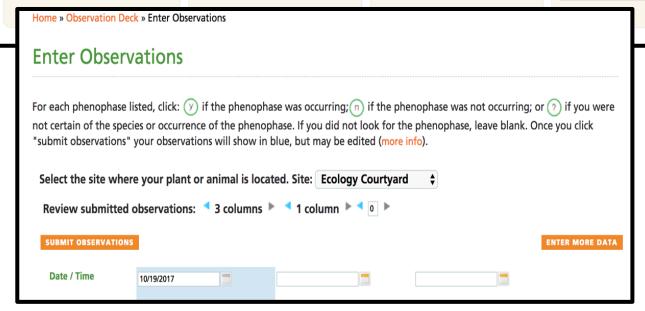


Enter Observation Data »
Download My Data (9) »



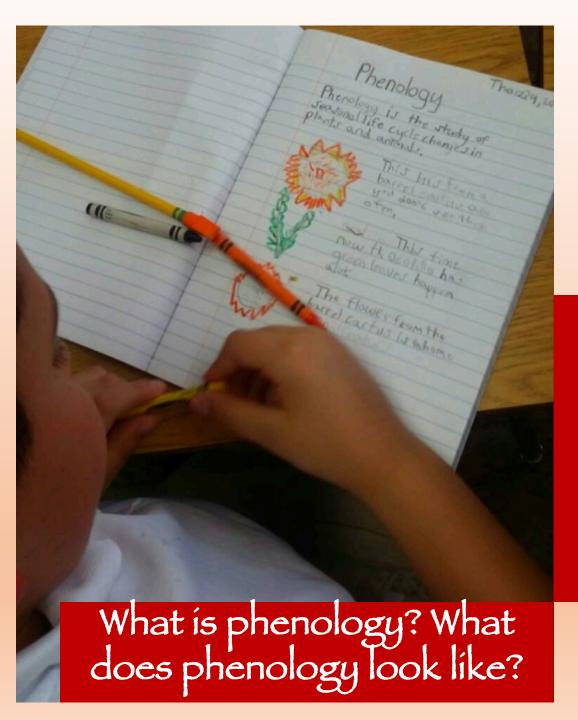
Nature's Notebook mobile apps for Android and iPhone.

### **SUBMIT OBSERVATIONS**



<b>▼ Barrel Cactus 1</b>								
	10/19/2017	<u>Circle all no</u> <b>Delete</b>			<u>Circle all no</u> <b>Delete</b>			
Do you see flowers or flower buds?	Y N ?	What value? •	Y N	?	What value? \$	Y	N	
Do you see open flowers?	Ý N ?	What value? 💠	Y N	?	What value? 💠	Y	N	,
Do you see fruits?	Y (N) ?	What value? \$	Y N	?	What value? \$	Y	N	•
Do you see ripe fruits?	Y (N) ?	What value? \$	Y N	?	What value? 💠	Y	N	
Do you see recent fruit or seed drop?	Y N ?	What value? 💠	Y N	?	What value? 💠	Y	N	•
Comments								





STEP 1: Background Knowledge



Step 2: Research on phenological relationships



What symbols will you represent on your mandala?

STEP 3: Creating a KEY LIST of symbols



STEP 3:
Translate symbols onto your mandala

What symbols will you represent on your mandala? Begin filling in your mandala in pencil. Erase lines you do not need.



STEP 4:
Outline your
symbols

- Outline all symbols in black marker.
   Erase all excess pencil marks.



Step 5: Begin adding color

Use your research to determine different colors, shapes, and sizes occuring in different phases of your plant's life cycle.



Step 6: Dry, cut, frame, and enjoy!

What will the title of your art piece be?



Mansfeld
Magnet Middle
School
Susan Sumner's 6<sup>th</sup>
Grade Classroom