

| Name | Date |
|---------------|--|
| | Activity 1a: Living and Non-Living |
| My partner' | s name is |
| 5 things we | see that are living are: |
| 1 | |
| 2 | |
| | |
| | |
| | |
| | |
| 5 things we | see that are non-living are: |
| 6 | |
| 7 | |
| 8 | |
| | |
| | |
| In the spec | e below, explain the differences between living and non- |
| living things | · |
| | |
| | |
| | |
| | |

| Name | | | Date | |
|---|-------------|-------------|-----------------------|--------------------|
| Activity | 1b: Hov | | Are You? | |
| In-Pencil Facts (List those about. It's okay to be wrong! | | t you think | k you know, but you a | ren't very certain |
| In-Ink Facts (List those for there is a chance you might be | | | tty certain are true, | but you think |
| In-Stone Facts (List those | e facts tha | t you are c | absolutely sure about | ·.) |

| Name | Date | | |
|--|------|--|--|
| Activity 2: Are All Plants the Same? | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Draw a picture to support your answer: | | | |

| Name | | | Date | |
|----------------------------------|--------------------------------------|-------------------------------------|-----------------|-----------------------------|
| Activity 3c: | Relativ | e Order of S | ieeds | |
| | | er from largest ed in each box t | | the boxes below Inswers. |
| | | | | |
| | | | | |
| smallest — | | | | → largest |
| longest, talles 4. Write your | st, heaviest, wid choice on the l | | ooxes. | Some ideas are |
| the boxes bel | | ler using mis qu | ally, Flace the | Tive seeds in |
| 6. Draw a pict | ure of each see | ed in each box t | o record your a | inswers. |
| | | | | |
| | | | | |
| | | | | |

| Name | Date | | |
|---|--------------------|--|--|
| Description of a Seed | | | |
| Directions: | | | |
| 1. Draw the seed in the box to the right. Include many details in your drawing. Fill most of the space. | | | |
| 2. Some of the properties | s of the seed are: | | |

(Continued on next page)

| Name | Date |
|--|---------------------------------|
| Activity 4: Eng | gineering a Seed |
| Planning : | my design: |
| My design will look something like | |
| After testing The distance my design flew was: | ng my design: |
| 1 st trial | 2 nd trial |
| | |
| On a scale of 1 to 10, with ten bein | ng highly successful, I rate my |
| design a because _ | |
| To improve my design, I think I ne | ed to |
| | · |

| Name Date | |
|--|---|
| Activity 5: My Plan for Inquiry on Seeds | |
| Members of my group: | _ |
| Research question: | _ |
| How will we collect information? | _ |
| | |
| Materials we need are: | |
| | |
| | |
| How will we record the information? | |
| | |
| Our hypothesis of what will happen is | |
| | |
| | |

| Activity 5: Reflection on My Inquiry Project |
|--|
| The conclusion I made after my investigation is |
| The evidence that I have to support this conclusion is |
| |
| These parts of my investigation went well: |
| |
| |
| I would change these things if I did this investigation again: |
| |
| |
| The question I still wonder about seeds is |

| Name | | Date | · |
|------|--|------|----------------|
|------|--|------|----------------|

Activity 6: Observations of a Tree



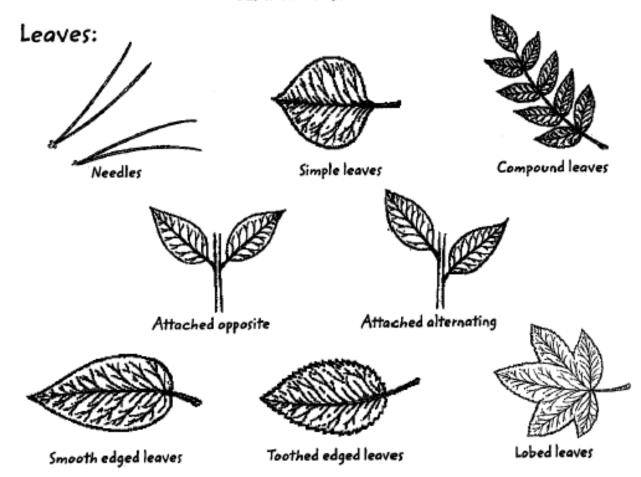
Name _____ Date _____ Activity 6: Close-up Observations of a Tree



| Name | Date |
|-----------|--|
| | ctivity 7: Inherited or Acquired Traits? |
| | traits: These are traits that I'm sure this tree has that are ts parents and other trees of its species. |
| | |
| | |
| • | raits: These are traits that I'm sure this tree has that rom its environment. |
| | |
| | |
| | |
| Are these | traits inherited or acquired? I'm not sure about these: |
| | |
| | |
| | |

Tree Detectives!

LEAF AND BARK CLUES



Bark:



Smooth



Bumpy



Ridged

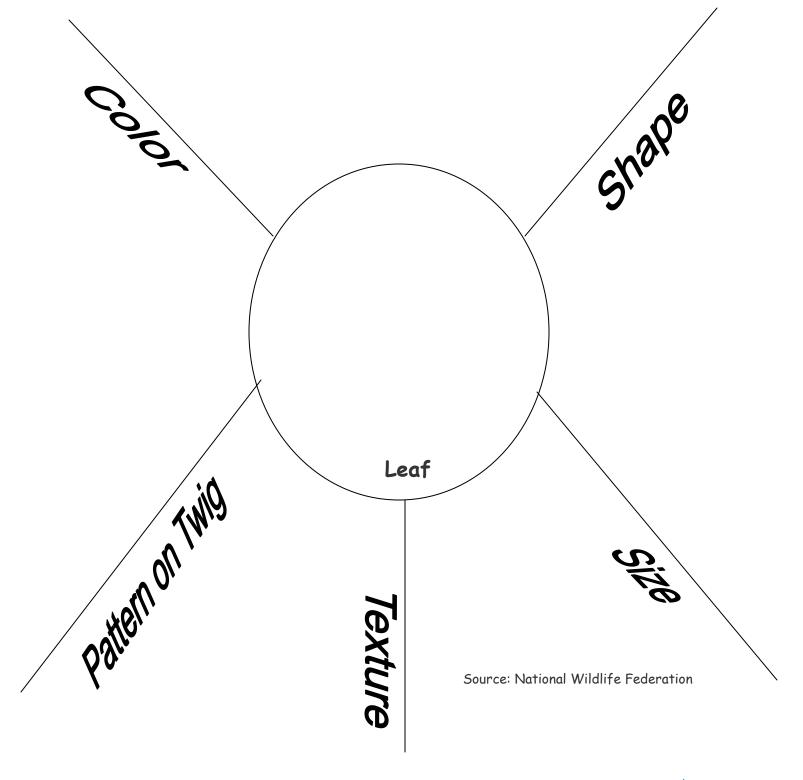


Scaly

| Name | Date |
|----------|------|
| 1 101110 | Daic |

Activity 8: Leaf Clue Sheet

DIRECTIONS: Draw a picture of your leaf in the middle circle. Briefly describe or draw each characteristic of the leaf in the graphic organizer below.



| Name Do | ate | | | | |
|--|---|--|--|--|--|
| Activity 9: Measurements of a tree | | | | | |
| Directions for measuring the trunk circumfe Wrap a string around the tree, about $4\frac{1}{2}$ feet the string, then measure its length using a rule the number and unit of measurement below. | above the ground. Mark | | | | |
| The circumference of the tree is | · | | | | |
| Directions for measuring the height of a tree Hold a stick at eye level. The measurement of has to equal the measurement of the stick from to move the stick. Carefully walk until the bottlike it is at the bottom of the stick. The top of is at the top of the stick. Measure how far you measurement, in feet, is the height of the tree | the stick above your hand m your eye. Be careful not tom of the tree trunk looks f the tree should look like it u are from the tree. That | | | | |
| The height of the tree is | feet. | | | | |
| Directions for finding the average crown spr Use four pencils or sticks. Put one stick in the the tree crown. Walk across to the other side under the opposite edge of the tree crown. Me the two sticks. The first measurement is | ground under the edge of and put a second stick easure the distance between | | | | |
| Now pretend you are making the letter t. You up and down. Move to the place where you wou stand under the edge of the crown. Put a penc across to the opposite side of the crown. Put the Measure the distance between the two sticks. The second measurement is | ld make the cross line, but il here. Move straight the last pencil here. | | | | |



Add these two numbers and divide by two. This is the average. Do your

work on the back of this page. The average is _____

| Name | | Date |
|------|--|------|
|------|--|------|

Activity 10a: My ideas on the life cycle of an apple tree



| Vame | | Date |
|------------|--|-----------------|
| 1. Describ | Activity 10b: Flower Obsequence your flower: | servation Table |
| C | Color: | Smell: |
| 9 | Shape: | Size: |

- 2. Directions for completing the table on the next page:
 - Dissect your flower by pulling it apart carefully, one piece at a time.
 - Tape one of each structure to the first column.
 - Count the number of each structure. Write your answer in the second column.
 - Predict what you think the function of this flower part might be. Write your answer in the third column.
 - Wait to fill in the structure name and function. We will do this as a class.
- 3. Draw a sketch of your flower before you dissect it.

4. What questions do you have about flowers?

| Flower Structure (Tape it to your paper.) | Number of These on Flower | Predicted Function of Flower Structure | Name of Structure | Function of Structure |
|---|------------------------------------|--|----------------------|--------------------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |