

Fall 2015

Trees

and

Weather

(3<sup>rd</sup> Edition)

3-1

What is the weather

air outside

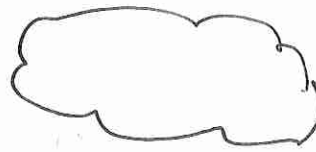
today?

now

Teacher: Sunny  
partly cloudy  
overcast  
rainy  
snowy



rain



Note: Could do monthly entry to note changes.

3-1

Today is rainy and  
cloudy. I feel rain  
on my face.

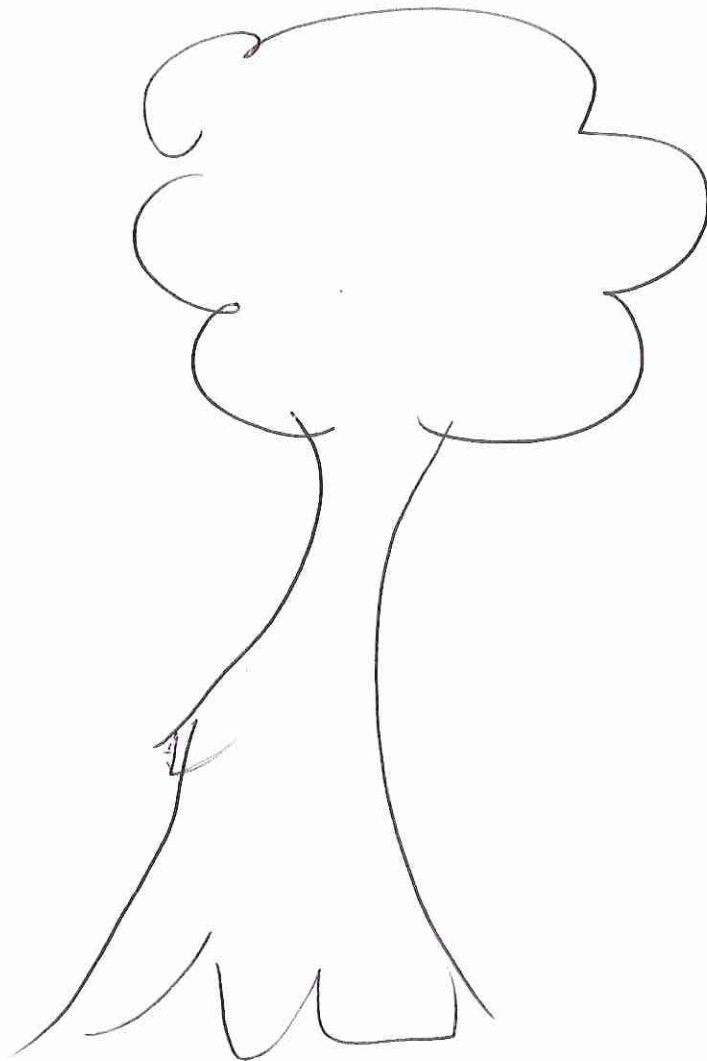
or

T is R n y

1-1

What do you know about  
trees? plants

\* students draw a tree  
used as a pre-assessment.  
Will do 3x a year to assess  
growth.



1-1

A tree has leaves.

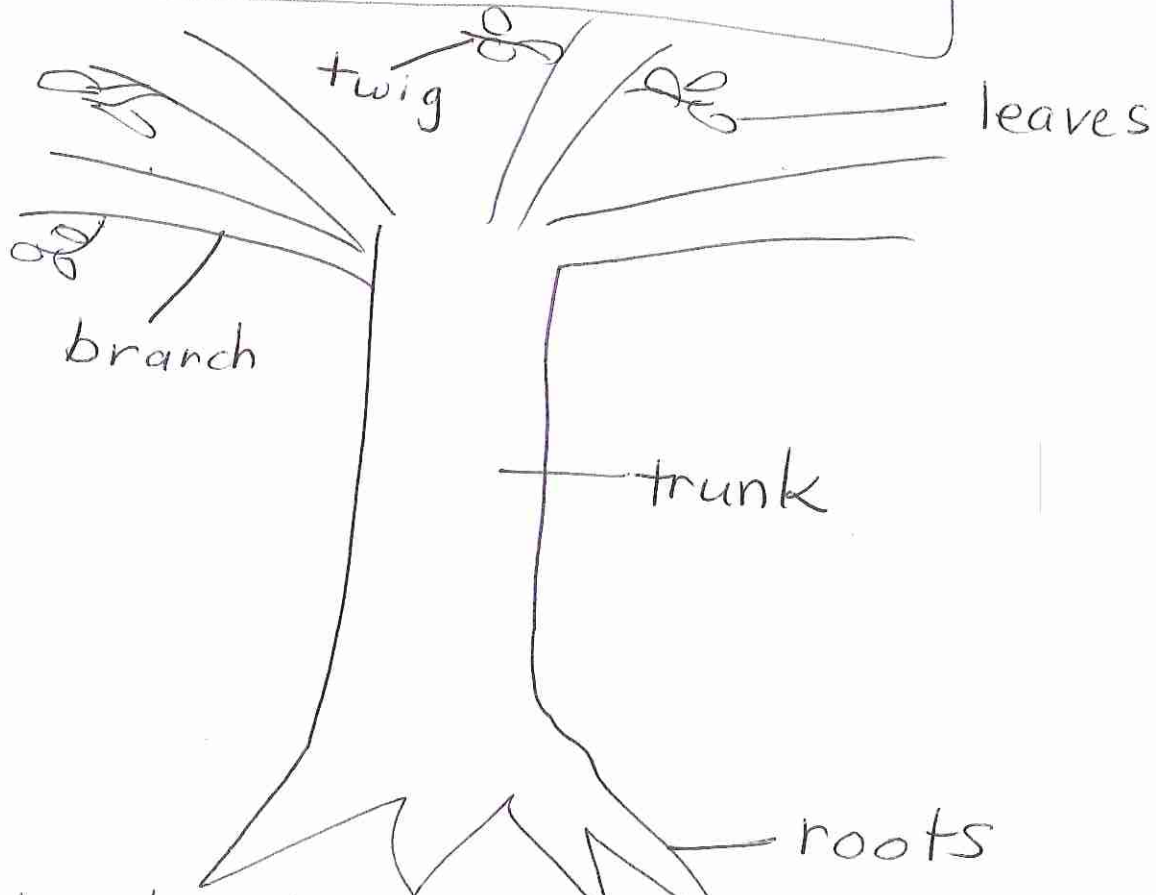
1-1 cont.

4 science senses

What did you learn about  
our schoolyard trees?  
plants

Teach

- Trees are plants
- Trunk is a big stem
- 4 main parts of a tree
  - trunk
  - branches - twigs
  - leaves
  - roots



materials: - tree rounds  
posters

1-1

I observed our tree  
has leaves and branches.

or

I observed lvs.

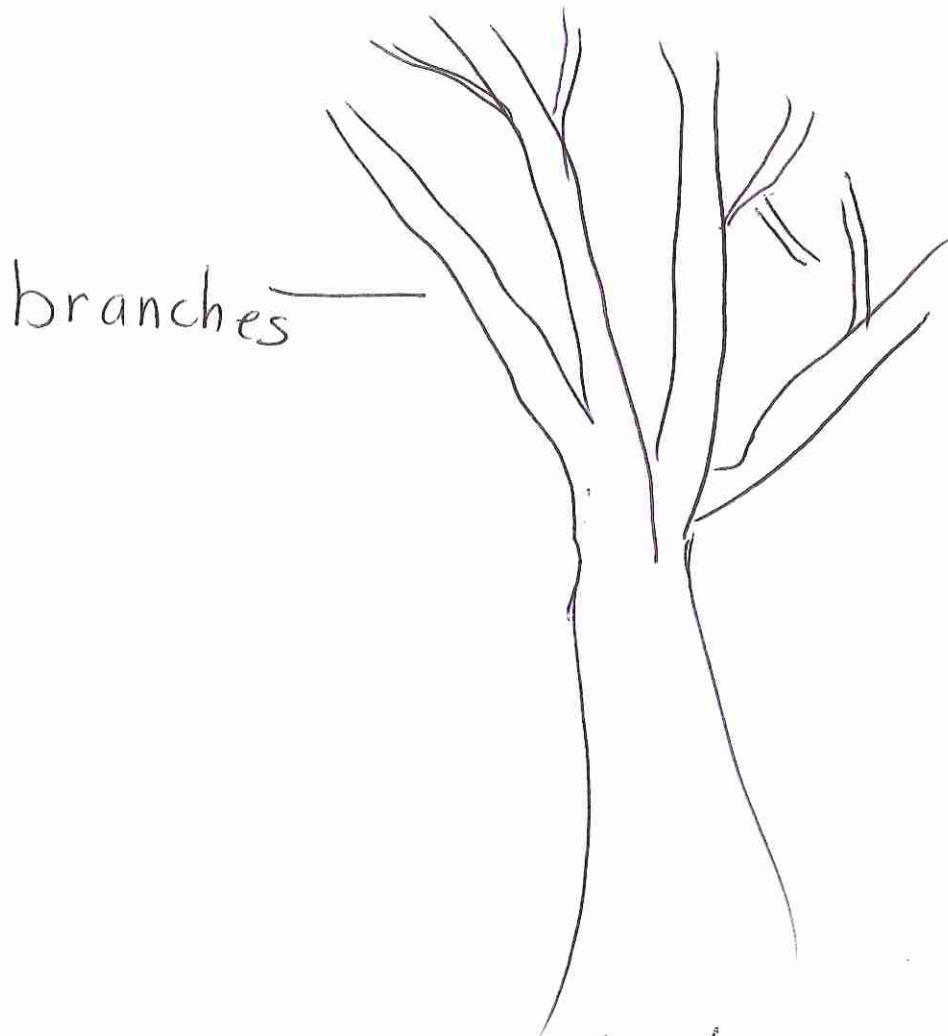
Or

I observed an ant  
on the tree.

1-2

What are the <sup>pieces</sup> parts of a tree?

Choose one part to illustrate from Tree parts cards



branches

or do whole tree.



1-2

I observed a tree has  
lots of branches.

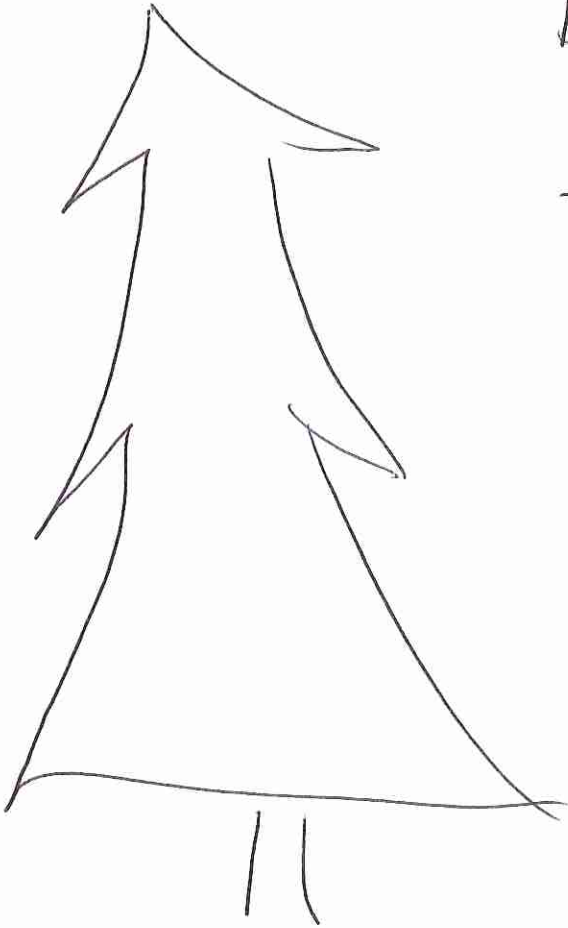
or

I noticed the leaves  
grow on the branches.

or

I noticed lv on br.

1-3 property how they look  
What shape are trees?



DAY 1

Tree puzzle investigate

DAY 2  
(whole class)

trunk leaves tall
-------------------------

apple tree

Palm tree

fat  
leaves all over

skinny  
leaves up high

Day 3

Shape is a property  
of a tree

Tree silhouette

Memory  
Game

1-3

I observed trees have  
many shapes, Some are  
tall but others are not  
tall. I wonder why that  
happens.

or

It reminds me .....

1-4

Which trees have similar <sup>same</sup>  
shapes?

Tm 8 (Tree-silhouette cards)

Center activity

Sort trees into groups  
by shape and glue on  
large paper. Then glue  
in notebook.

Turn + talk - class  
discussion of how sorted.

1-4

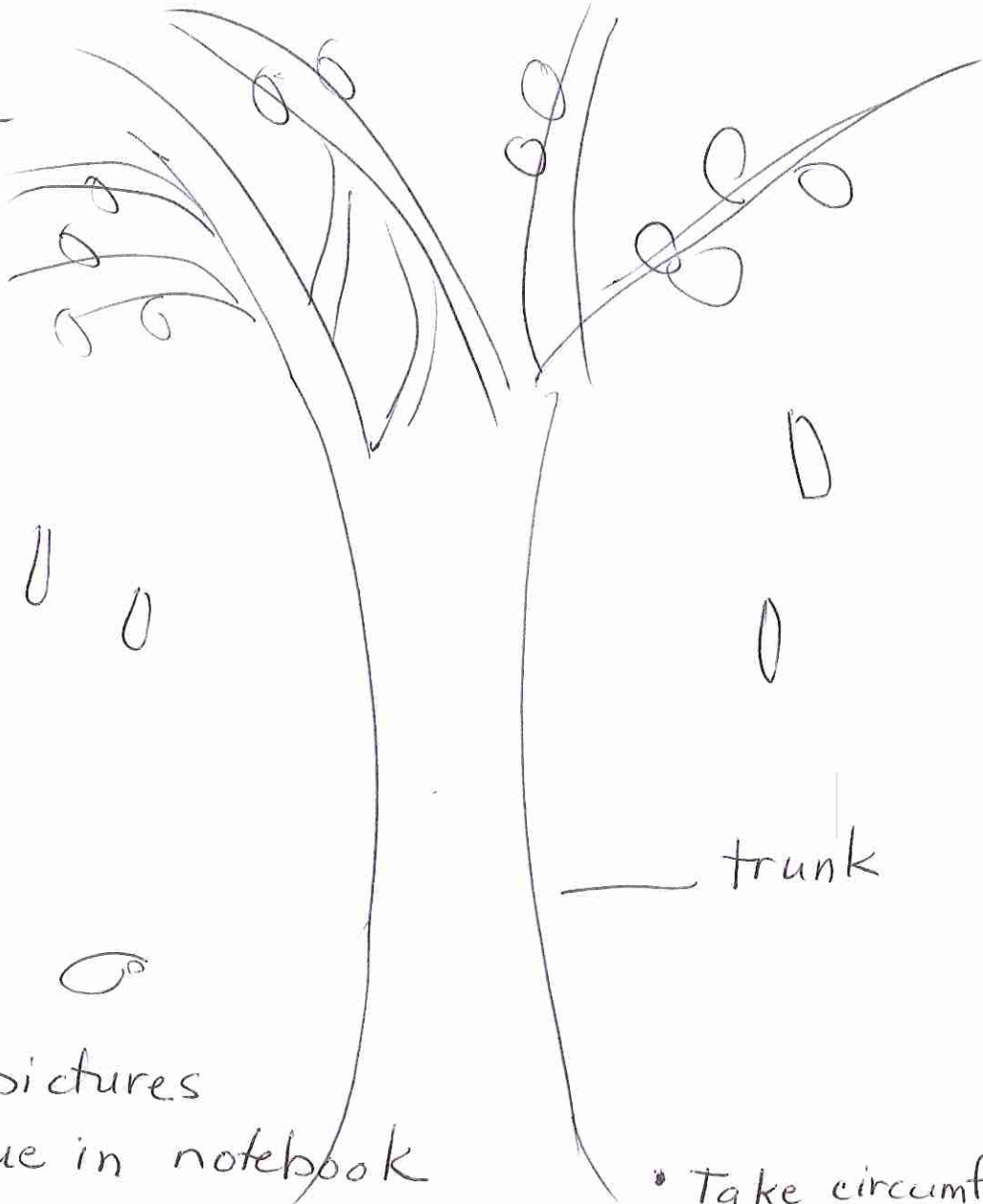
Whole group  
discussion

1-5

observe  
senses

What can we find out about  
our adopted tree?

Fall



colorful  
leaves

trunk

\* Take pictures  
to glue in notebook  
or

\* make a foldout  
seasonal chart

\* Take circumference  
w/string.

\* Reading + {Habitat cards  
Landform

1-5

Fall

I adopted a maple tree.

I notice it has red

leaves in the Fall that  
are falling on the ground.

Also I saw a bird's nest  
in the branches.

Winter

Spring

Q-1

What can we observe  
about leaves?

eyes

parts of tree

properties

\* collect 6 dif. leaves

- Work in pairs sorting.

- Pick one way to  
illustrate a sorting.  
or  
glue

Size  
Shape  
edge (smooth,  
toothed,  
lobed)

tip shape  
(rounded  
or  
pointed)

texture





2-1

I observed I can sort  
my leaves in lots of  
ways. My data shows  
how I sorted them by  
pointy tips. I wonder....

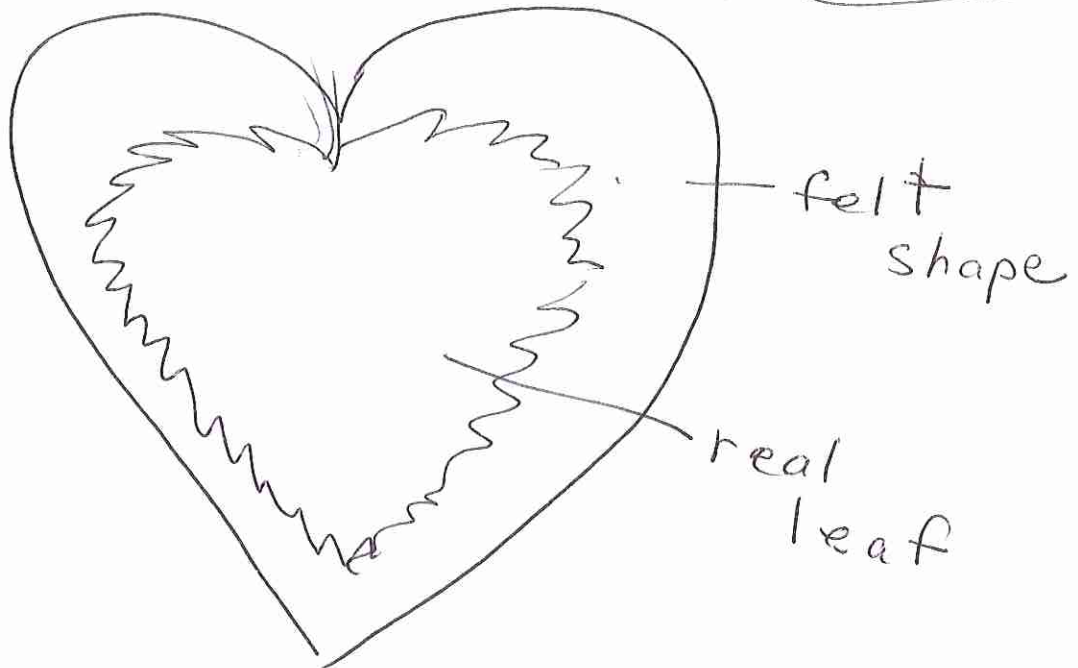
2-2

What <sup>property</sup> shapes are leaves?

(Felt leaves)

Leaf-sorting mats w/real leaves

spear  
oval  
heart  
line  
triangle  
paddle



2-2

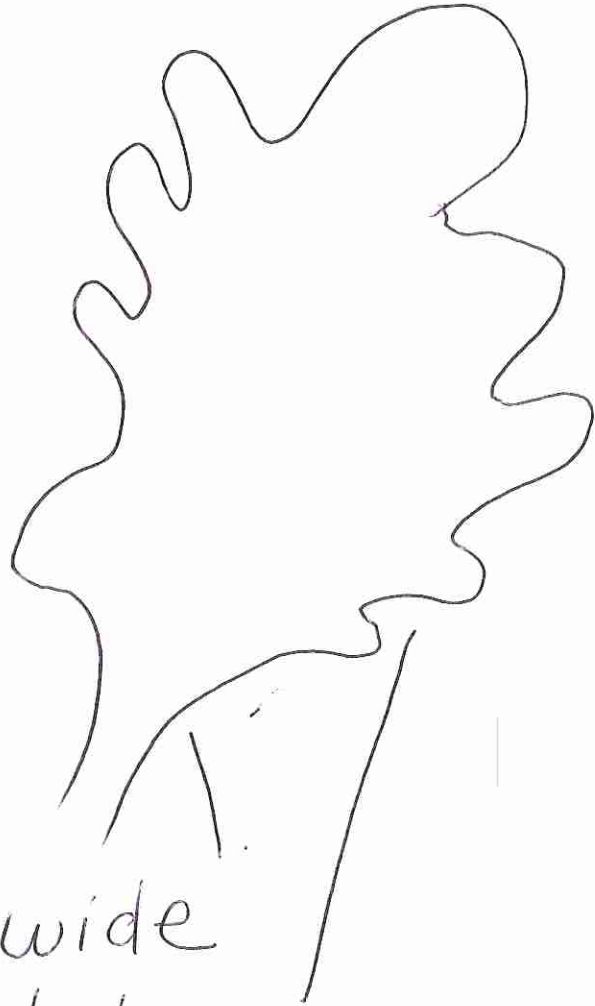
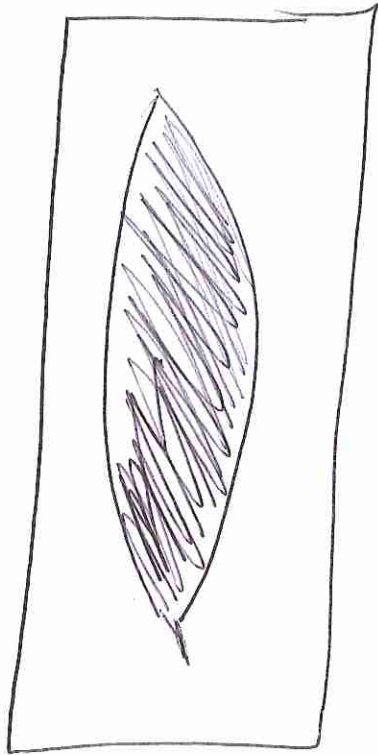
I observed my leaf  
shape is a heart. I know  
this because my leaf  
fit inside the heart.

It surprised me that some  
leaves can be more than  
one shape.

2-3

How are leaves <sup>not same</sup> different?

Paste TM 18  
picture for  
comparison



wide  
lobes

2-3

My leaf is different because  
it is wider and has a  
lobed shape. I wonder  
what tree it came from.

2-4

How are leaf edges  
different?

sides

Center activity  
with leaf silhouette games.

2-5

Leaf books

Center Activity

Read Our Very Own Tree  
for review



4-1

What do <sup>season</sup> fall trees <sup>eyes</sup> look like?

Active Outdoor Session →

Things Found under Trees

Seeds	Leaves	Twigs	Other	Not from a tree

Whole group chart on floor!



4-2

Active Center Investigation  
of seeds in fruit

Reading: My Apple Tree

4-3

Outdoor Session of  
visit to adopted tree.  
(Mark a twig for  
future investigations)  
(changes in seasons)

4-4 What do <sup>season</sup> winter trees look like?

Evergreen Outdoor Hunt

(Need evergreen samples laminated for reference cards)

Class chart of evergreen leaf types.

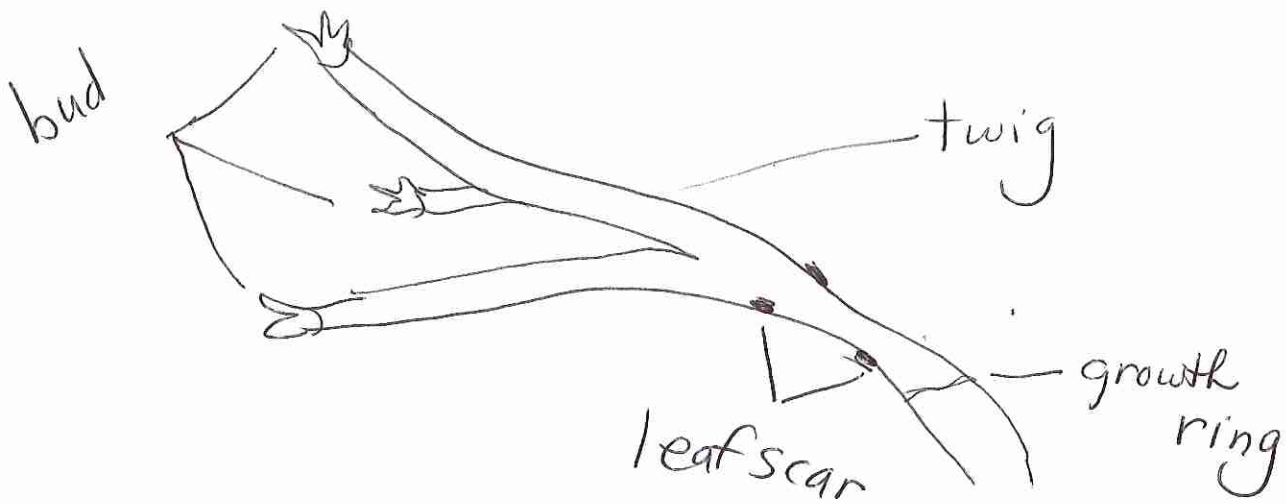
- see background for teacher
- leaves wide and flat
  - leaves long and pointed
  - tiny, pointy leaves → scales
  - 
  -

Reading "Orange Trees"

4-5

Examine and Investigate  
winter twigs.

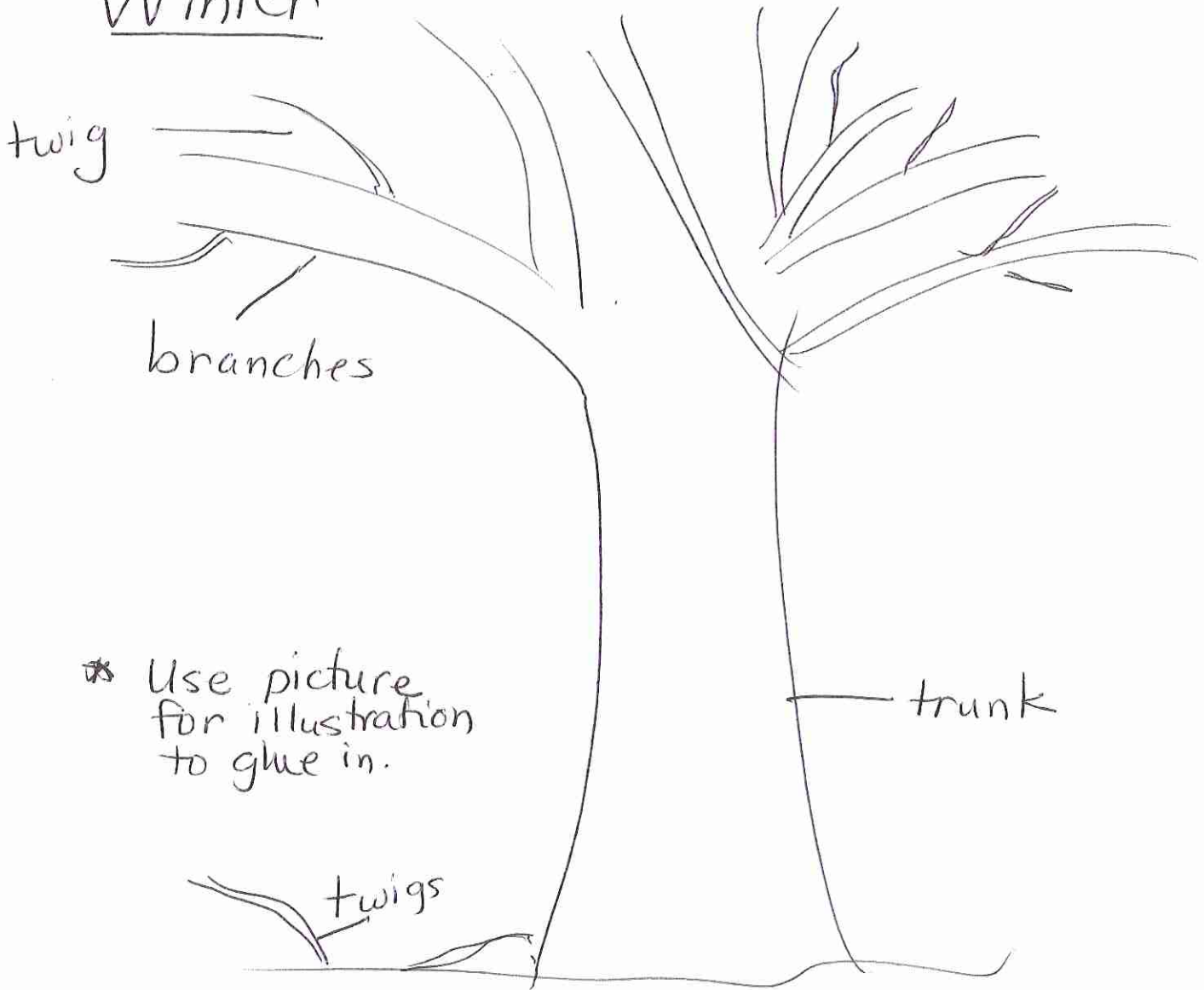
Vocabulary: bud  
scar  
growth ring



4-6 What do <sup>season</sup> winter trees look like?

Return to adopted tree for winter observation.

Winter



\* Use picture for illustration to glue in.

\* Be sure to note how evergreen trees are still green.

4-6

## Winter

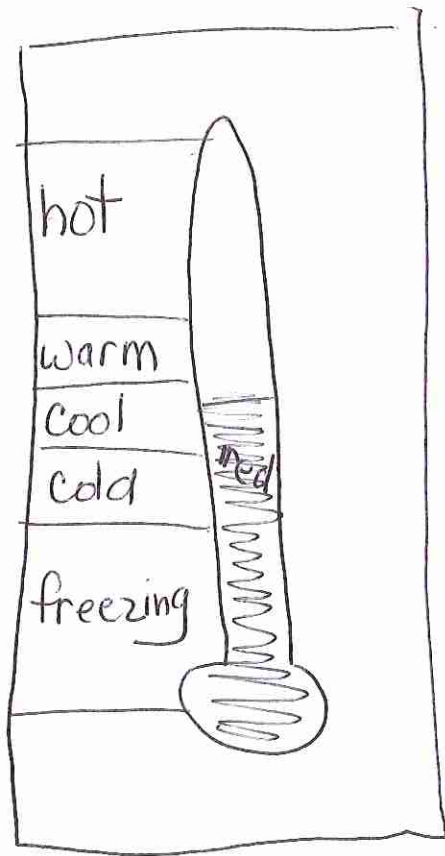
I observed my adopted tree in winter. I noticed it has no leaves and bare branches. Also, I observed some twigs on the ground next to the trunk. It reminds me of .....

3-2

How can we measure  
the air temperature  
weather

how much, big?  
how hot or cold

Glue  
in  
outline  
(color coded)  
TM 24  
or  
(see TM NMaster 7  
in Air + Weather)



air is  
cool  
outside

\* One month/week - Keep a temperature  
bar graph to show changes.

3-2

We measure air temperature with a thermometer. When the red line moves up, the air is warmer but when the red line moves down, the air is colder. Today is a cool day because my evidence is the red line is in the yellow zone.

or

red up = hot

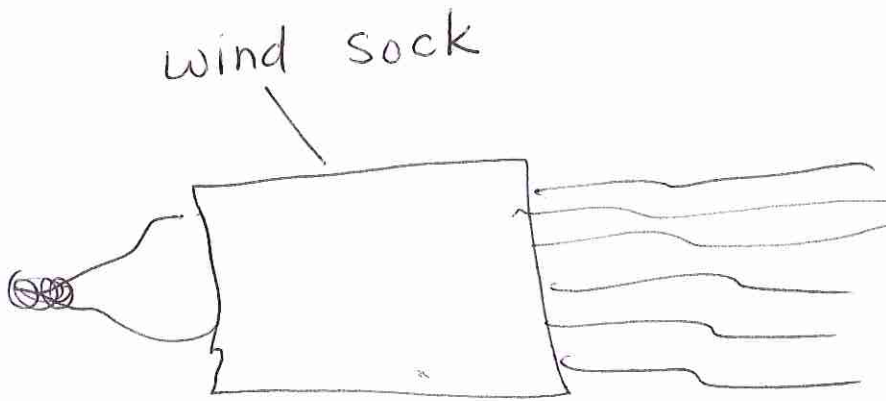
red down = cold

Today is cool.

3-3

What does a wind sock

show tell us about the wind <sup>moving air</sup>



→  
direction

or

Key

0 = no wind

1 = some wind

2 = lots of wind (Class Chart)

M	T	W	Th	F
1	1	3	2	2



3-3

A wind sock tells me  
what <sup>(direction)</sup> way the wind is  
blowing. My evidence is

I watched my wind sock  
outside and the streamers  
were blowing like the flag.

or

A wind sock tells me  
how hard the wind is  
blowing. My evidence is  
the streamers stay straight  
sometimes and sometimes  
wave like a flag.

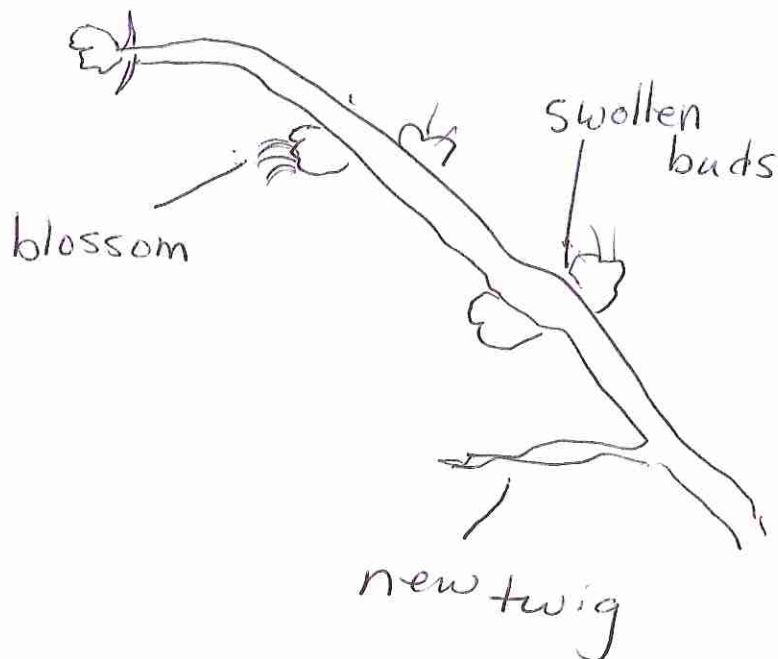
Reading "Weather"

4-7 What do <sup>season</sup> Spring trees look like?

## Forced Twigs - Center Observation

	Winter <sup>Twigs</sup>	Spring Twigs
class char	little buds	fat buds
	brown	green
	no blossoms	blossoms
	1 twig	new twigs off old one

Notebook:



First I noticed little buds  
on the twig in winter. Now  
I notice fat swollen buds  
that are beginning to  
open.

or

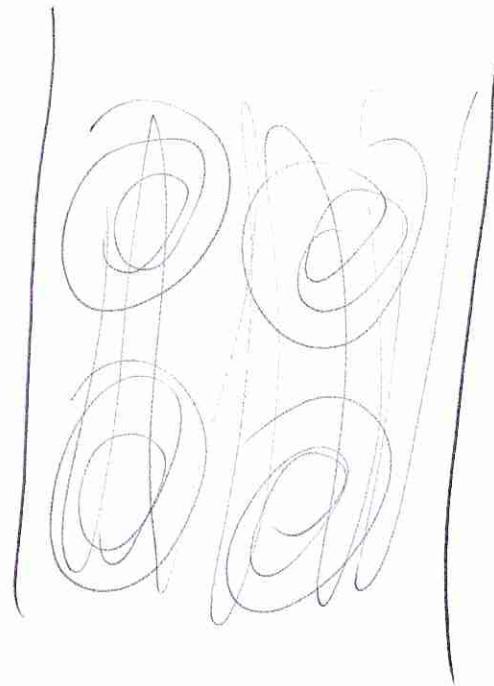
In winter, I noticed one  
twig. In spring, I noticed  
a new little twig coming  
out from the old one.

4-8 What does your bark <sup>part of trunk</sup> look like?

Active Outdoor Session

Bark Hunt ( Pictures available for hunt)

Students do rubbings to include in notebook.



4-8

My bark rubbing looks  
like a lot of circles  
twirling together. It  
surprised me how bark  
looks so different on trees.

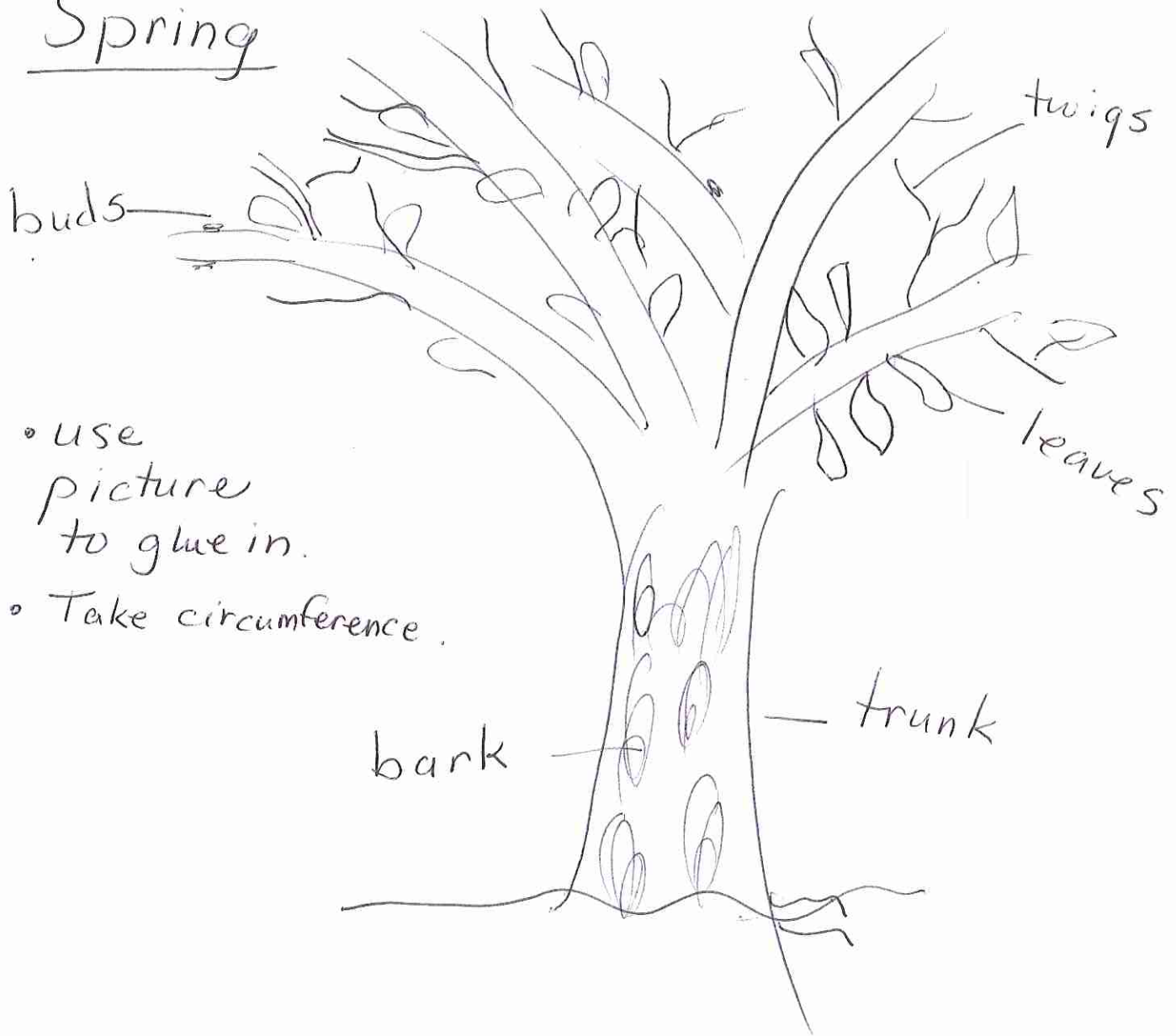
4-9

What do  
look like?

season plants  
Spring trees

Return to adopted tree for  
Spring observation.

Spring



- use picture to glue in.
- Take circumference.

4-9

I observed my adopted tree in Spring. I observed lots of buds on the branches and new twigs. Also, I noticed new leaves on my tree.

I wonder...

It surprised <sup>or</sup> me that the circumference of the trunk was fatter.

Reading Research

Re-read My Apple Tree

Read Maple Trees

1-6

# Tree Planting Ceremony