Leaf Classification

Leaf Parts:

Apex

Margin

midrib

Veins

Leaf blade

Petiole
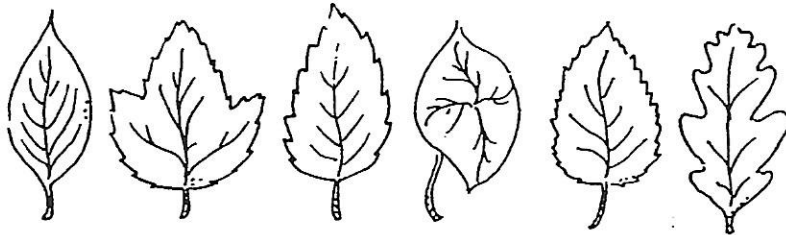
base

Name: _____

Date: _____

Leaf Classification

Leaf Types:

Simple leaves:

Compound leaves:
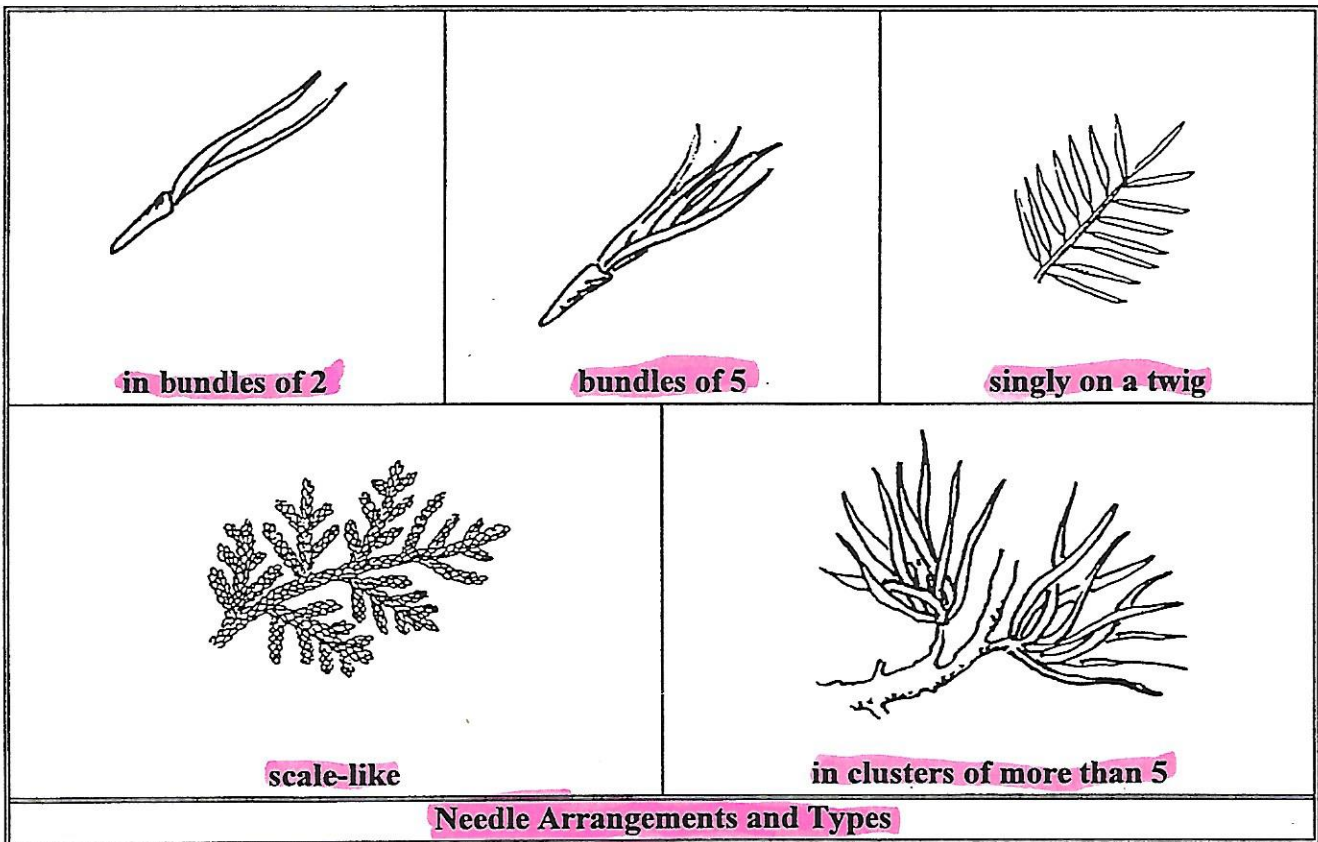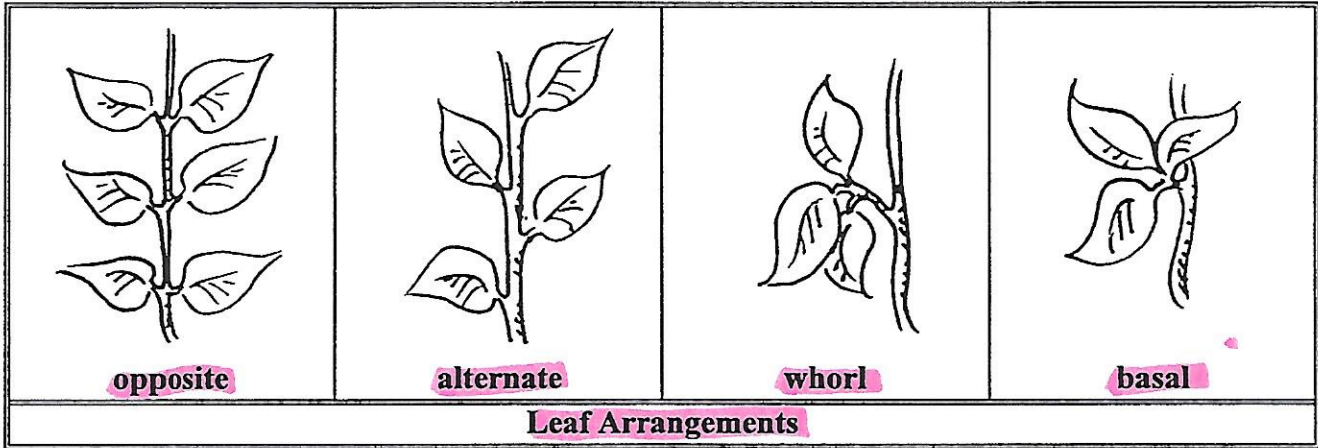(more than 1 blade on a petiole)
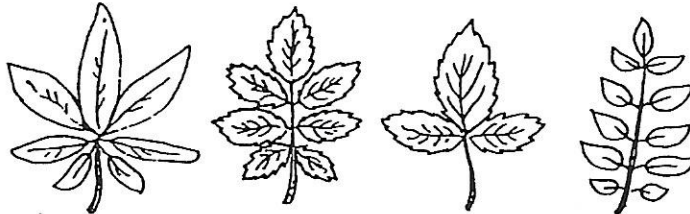
Double compound leaf:

Needle leaf:

Name: _____

Date: _____

Leaf Classification

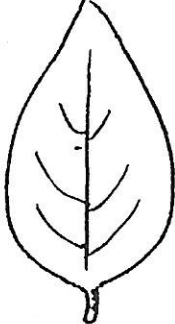|			
opposite	alternate	whorl	basal

Leaf Arrangements

in bundles of 2	bundles of 5	singly on a twig

scale-like	in clusters of more than 5

Needle Arrangements and Types
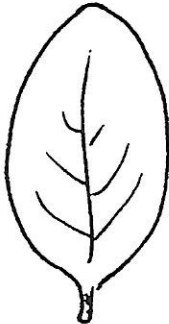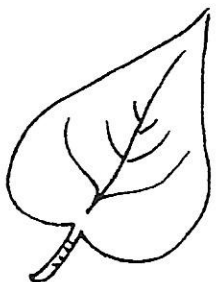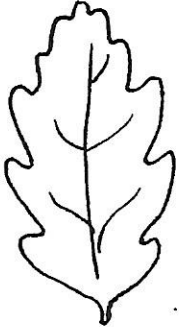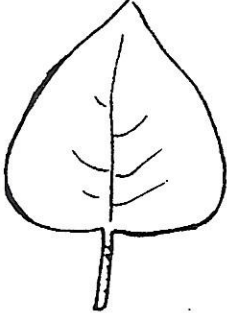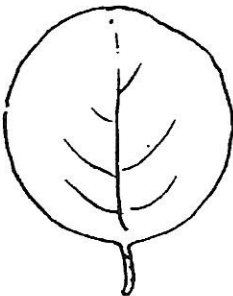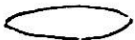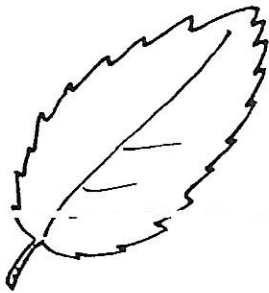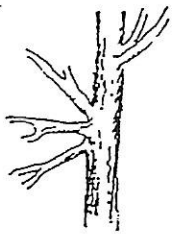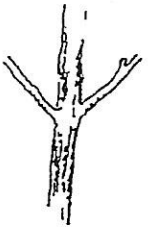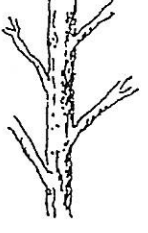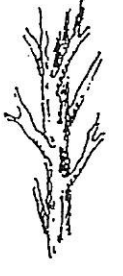
Leaf Classification

Leaf Shapes:

linear	oblong	oval	ovate	cordate (heart shaped)
lobed	deltoid (triangular)	orbicular (round)	4 sided needle	flattened needle

Leaf Margins:

smooth	fine-toothed	coarse toothed or serrated	scalloped or wavy
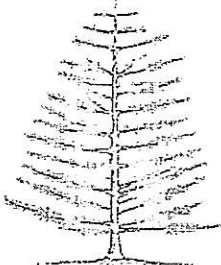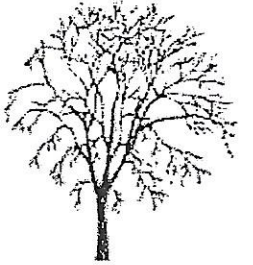
Branching Patterns

Some main growth patterns are:

	whorled - branches are attached in groups of 2 or 3 from the same location on the trunk.
	opposite - branches grow from the opposite sides of the trunk, across from each other.
	alternate - branches grow opposite each other, but one will be farther up the trunk than the first.
	spiral - branches grow alternately along the trunk, but in a spiral pattern like a corkscrew, moving up the trunk.

Some growing patterns are best observed by standing under the tree and looking up the trunk.

We can also classify trees based on the relation of the trunk to the branch location.

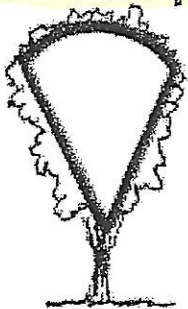|		
		Excurrent – The main trunk goes the entire height of the tree, with branches forming patterns. eg.//evergreens.
		Decurrent – The main trunk continues up about halfway, then splits into more than one main branch. eg.// fruit trees.
		Columnar – The main trunk continues the full height of the tree, with branches forming only at the top. eg.// palm trees.

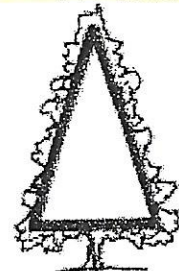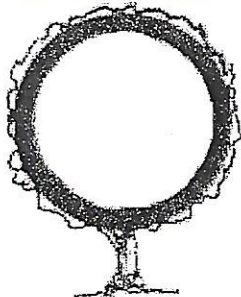## Trees can also be grouped into basic shapes.
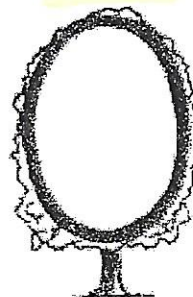
V-Shaped
Hackberry

Round
White Oak

Columnar
Lombardy Poplar

Oval
Sugar Maple

Pyramidal
Pin Oak
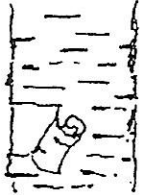
Name: _____

Date: _____

Bark Patterns

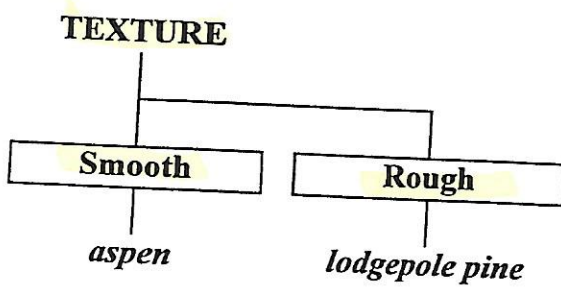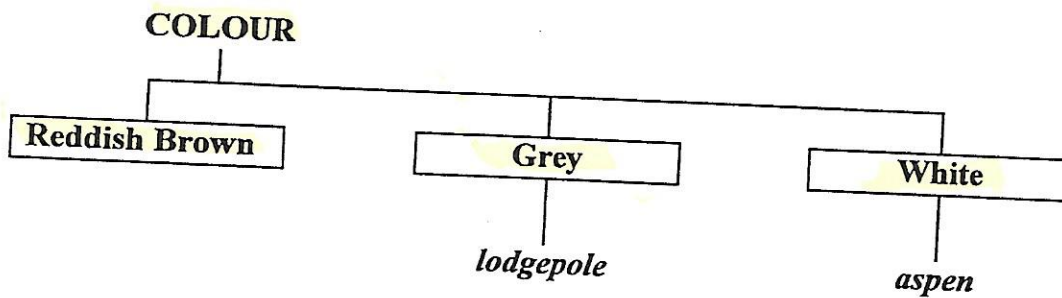|	**A.**	**B.**
These are the 5 different bark patterns that are found on trees in our local environment.	scaly pathes	horizontal
C.	**D.**	**E.**
vertical	horizontal and wavy	vertical and scaly

Name: _____

Date: _____

Tree Bark

Bark Characteristics Chart

A.

TEXTURE

Smooth	Rough

aspen   lodgepole pine

B.

COLOUR

Reddish Brown	Grey	White

lodgepole   aspen

C.

PATTERN

Scaly	Horizontal	Vertical	Combination

lodgepole   aspen