TREE IDENTIFICATION KEY

BEGIN HERE:

Tree has needles use ..... use **CONIFEROUS TREE KEY**

Tree has broad leaves ..... use **DECIDUOUS TREE KEY**

CONIFEROUS TREE KEY

1. Needles in bundles or groups (2)
1. Needles single or flattened and scaly (3)
   2. Needles in clusters of more than 5 needles ..... **Tamarack*** ***(Larix laricina)***
   2. Needles 2 to 5 per bundle: Pine species (see a-c below)

      a. Five needles per bundle ..... **White Pine** ***(Pinus strobus)***
      b. Needles in pairs, 3 to 4 inches long ..... **Red Pine** ***(Pinus resinosa)***
      c. Needles in pairs, under 2 inches long, bark dark gray ..... **Jack Pine** ***(Pinus banksiana)***

3. Needles scaly and flattened (4)
3. Needles single (5)
   4. Has cones, scales flat, branches fan-like ..... **Northern White Cedar** ***(Thuja occidentalis)***
   4. Has berries, may have scaly and prickly needles on same tree, scales rounded ..... **Eastern Red Cedar** ***(Juniperus virginiana)***
5. Needles flat (6)
5. Needles square, 4-sided, stiff, sharp: Spruce species (see a-b below)

      a. Needles 1/3 to 3/4 inch long, twigs hairless ..... **White Spruce** ***(Picea glauca)***
      b. Needles 1/3 to 3/4 inch long, twigs have hair, grows in wet areas ..... **Black Spruce** ***(Picea mariana)***

6. Needles 1/2 inch long with short petiole ..... **Eastern Hemlock** ***(Tsuga canadensis)***
6. Needles 3/4 inch to 1 1/4 inches long, no petiole, bubbles in bark ..... **Balsam Fir** ***(Abies balsamea)***

*Note: A tamarack is a deciduous conifer.

TREE IDENTIFICATION KEY
DECIDUOUS TREE KEY

1. Opposite branching (2)
1. Alternate branching (4)
   2. Compound leaves (3)
   2. Simple leaves: Maple species (see a-c below)

      a. Leaf margins smooth, 5 lobes .....**Sugar Maple *(Acer saccharum)***
      b. Leaf margins double-toothed, 3 to 5 lobes.....**Red Maple *(Acer rubrum)***
      c. Leaf margins single-toothed, 3 to 5 lobes, lobes separated by deep, angular openings .....**Silver Maple *(Acer saccharinum)***

3. 3 (rarely 5) leaflets.....**Box Elder *(Acer negundo)***
3. 5 to 11 leaflets: Ash species (see a-c below)

      a. 9 to 11 leaflets, leaflets do not have petiole.....**Black Ash *(Fraxinus nigra)***
      b. 5 to 9 leaflets, leaflets have petiole, smile-shaped leaf scar extending up sides of new bud .....**White Ash *(Fraxinus americana)***
      c. 7 to 9 leaflets, leaflets have petiole, leaf scar ends at base of new bud.....**Green Ash *(Fraxinus pennsylvanica)***

   4. Compound leaves (5)
   4. Simple leaves (8)
5. 7 or fewer (usually 5) leaflets, egg-shaped nut .....**Shagbark Hickory *(Carya ovata)***
5. 7 or more leaflets (6)
   6. Leaflets rounded .....**Black Locust *(Robinia pseudonacacia)***
   6. Leaflets pointed (7)
7. Leaf 6 to 8 inches long .....**Mountain Ash *(Sorbus americana)***
7. Leaf 8 to 24 inches long .....**Black Walnut *(Juglans nigra)***
   8. Leaves not lobed (9)
   8. Leaves lobed: Oak species (see a-f below)

      a. Rounded lobes, 5 to 9 deep even lobes and sinuses, leaves hairless .....**White Oak *(Quercus alba)***
      b. Rounded lobes, pair of deep sinuses near middle of leaf, hairy underside of leaves .....**Bur Oak *(Quercus macrocarpa)***
      c. Rounded lobes, leaf narrow at base and broad near middle, hairy underside of leaves .....**Swamp White Oak *(Quercus bicolor)***
      d. Pointed lobes, sinues extend halfway to mid-vein, leaves hairless, dull green .....**Red Oak *(Quercus rubra)***
      e. Pointed lobes, deep sinues extend 3/4 of the way to mid-vein, leaves hairless, bright green and shiny.....**Northern Pin Oak *(Quercus ellipsoidalis)***
      f. Pointed lobes, deep sinues, young leaves hairy underneath, dark green and shiny, leathery .....**Black Oak *(Quercus velutina)***

TREE IDENTIFICATION KEY
DECIDUOUS TREE KEY

9. Bark not papery (10)
9. Bark papery: Birch species (see a-c below)

a. Leaves single-toothed, white peeling bark .....**White Birch *(Betula papyrifera)***
b. Leaves double-toothed, dull green leaves, yellow or bronzed bark .....**Yellow Birch *(Betula alleghaniensis)***
c. Leaves double-toothed, shiny green leaves, reddish-brown to silvery-gray bark.....**River Birch *(Betula nigra)***

10. Leaf petioles flat (11)
10. Leaf petiole round (12)

11. Leaf triangular-shaped with coarse teeth .....**Eastern Cottonwood *(Populus deltoides)***
11. Leaf oval: Aspen species (see a-b below)

a. Leaves have small, fine teeth less than 1/16 inch.....**Trembling Aspen *(Populus tremuloides)***
b. Leaves have large teeth.....**Big-toothed Aspen *(Populus grandidentata)***

12. Leaves nearly as wide as long (13)
12. Leaves longer than wide (14)

13. Leaves finely toothed .....**Balsam Poplar *(Populus balsamifera)***
13. Leaves coarsely toothed.....**Basswood *(Tilia americana)***

14. Leaf less than 3 times as long as wide (15)
14. Leaf at least 3 times as long as wide.....**Willow species (Common species include Weeping Willow and Black Willow)**

15. Leaf veins thin and branch often (16)
15. Leaf veins thick and run from center to edge of leaf without branching (17)

16. Fine blunt teeth, leaves 2 to 6 inches long, bark dark .....**Black Cherry *(Prunus serotina)***
16. Sharp pointed teeth, leaves 2 to 4 inches long and hairy.....**Hackberry *(Celtis occidentalis)***

17. Leaf shiny and leathery (thick), coarse sharp teeth.....**Beech *(Fagus grandifolia)***
17. Leaf dull and rough (18)

18. Most leaf bases even, seed in elongated clusters.....**Ironwood *(Ostrya virginiana)***
18. Leaf base uneven, seeds flat and papery.....**Elm species (Common species include American Elm, Rock Elm, and Slippery Elm)**