**Summer Key for Trees**

1. Are the leaves less than 3mm wide, or resemble needles or scales?

Yes - **Gymnosperms**  3

No - **Angiosperms**  10

**Gymnosperms**

3.  Do the leaves resemble feathers?

Yes - **Taxodium Distichum**, Baldcypress Tree ID 12

No - 4

4.  Do the leaves have scales?

Yes - 8

No - 5

5.  Do the leaves resemble needles in clusters of 2 - 5?

Yes - **Pinus**, Pine Tree ID 1-10

No -**Tsuga Canadensis**, Eastern Hemlock Tree ID 11

8.  Do the cones resemble small blue berries?

Yes - **Juniperus**, Red-cedar, Cedar Tree ID 14

No - **Chamaecyparis**, Atlantic white-cedar, White cedar Tree ID 13

**Angiosperms - Dicotyledons**

10.  Are the leaves alternate?

Yes - 11

No - 13

11.  Are the leaves simple or compound?

Simple - 12

Compound - 25

12.  Are the leaves evergreen?

Yes - 37

No - 50

**Dicotyledon** with opposite or whorled leaves

13.  Are the leaves compound or simple?

Compound - 14

Simple - 16

14.  Do leaves come off of the end of the stem, or different points?

Just the end - **Aesculus Sylvatica**, Buckeye Tree ID 81

Different points of the stem - 15

15.  How many leaflets are on the stem?

5 or more - **Fraxinus**, Ash Tree ID 90-91

Less than 5 - **Acer negundo**, Boxelder Tree ID 80

16.  Are the leaves heart shaped?

Yes -  **Catalpa bignonioides**, Southern Catalpa Tree ID 92

No - 18

18.  Are the leaves lobed?

Yes - **Acer**, Maple Tree ID 77-79

No - **Cornus Florida**, Dogwood Tree ID 86

**Dicotyledon**with alternate compound leaves

25.  Are the leaves compounded more than once?

Yes - **Gleditsia Tricanthos**, Locust, Honeylocust Tree ID 71

No - 29

29.  Do the stems have thorns?

Yes - 30

No - 31

30. Do the stems have an even number of leaflets?

Yes - **Gleditsia Tricanthos**, Honeylocust Tree ID 71

No - **Robinia pseudo-acacia**, Black locust, Locust Tree ID 72

31.  If stem is cut long ways, are there little chambers inside?

Yes - **Juglans**, Walnut Tree ID 15-16

No - 32

32.  Are the leaves serrated all the way around?

Yes - **Carya**, Hickory, Hockory-nut, Pecan Tree ID 17-24

No - **Robinia pseudo-acacia**, Black locust, Locust Tree ID 72

**Dicotyledon** with simple, alternative, evergreen leaves

37.  If the stem is cut open, is there a star shape in the cross section?

Yes - **Quercus**, Oak Tree ID 35-52

No - 38

38.  Is the terminal bud large and possibly wooly?

Yes - **Magnolia**, Magnolia Tree ID 59-63

No - **Ilex**, Holly Tree ID 74-76

**Dicotyledon**with alternate, simple, deciduous leaves

50.  Are leaves and buds clustered at the ends of branches

Yes - **Quercus**, Oak Tree ID 35-52

No - 51

51.  Are there any lobed leaves?

Yes – 93

No - 52

52.  Do the leaves attach to 2 opposite side of the twig?

Yes - 53

No - 71

53. Do the leaves have 1 large vein going down the middle of the leaf blade?

Yes - 57

No - 54

54.  Are the leaves smooth along the edges?

Yes - 55

No - 56

55.  Are the leaves heart shaped, with more than 4 main veins near the base of the leaf?

Yes - **Cercis Canadensis**, Eastern Redbud Tree ID 73

No - **Celtis**, Sugarberry, Hackberry Tree ID 56-57

56.  Are the leaves as wide as they are long?

Yes - **Tilia Heterophylla**, White Basswood Tree ID 82

No - **Celtis**, Sugarberry, Hackberry Tree ID 56-57

57.  Are the leaves smooth all the way around the edges?

Yes - 59

No - 60

59.  Are the leaves pinnately veined or palmately veined?

Pinnate - **Diospyros virginiana**, Common persimmon Tree ID 88

Palmate - **Celtis**, Sugarberry, Hackberry Tree ID 56-57

60.  Do the petioles, leaf stems, have at least 1 gland near the leaf blade?

Yes - **Prunus**, Cherry, Black cherry, Wild cherry Tree ID 69

No - 61

61.  Are the serrations teeth more than 5mm apart?

Yes - 62

No - 63

62.  Do the teeth have bristly tips?

Yes - **Castanea**, Chestnut, Chinkapin Tree ID 33-34

No - **Fagus grandifolia**, Beech Tree ID 32

63.  If stem is cut long ways at the nodes, are there little chambers inside?

Yes- **Celtis**, Sugarberry, Hackberry Tree ID 56-57

No - 64

64.  Does the bark peel off in large papery sheets?

Yes - **Betula**, Birch Tree ID 28-29

No - 66

66.  Are the petioles, leaf stems, over 2.5 cm long?

Yes - 67

No - 68

67.  Are there buds at the end of the twigs?

Yes - **Amelanchier Arborea**, Serviceberry, Sarvice, Shadbush Tree ID 68

No - **Tilia Heterophylla**, White Basswood Tree ID 82

68.  Are the leaves noticeably uneven at the base?

Yes - **Ulmus**, Elm Tree ID 53-55

No - 70

70.  Are the leaves doubly serrate or mostly once serrate?

Doubly serrate - **Carpinus caroliniana**, American hornbeam, Blue-beech, Ironwood Tree ID 30

Mostly once serrate - **Oystrya virginiane**, Eastern hophornbeam Tree ID 31

71.  Do the twigs have thorns?

Yes - 74

No - 76

74.  Do the petioles, leaf stems, have at least 1 noticible gland near the leaf blade?

Yes - **Prunus**, Plum Tree ID 69

No - **Crataegus**, Hawthorn, Thorn, Red haw, May haw Tree ID 70

76.  Are there little buds, without scars, directly above main buds on the twig?

Yes - **Halesia**, Silverbell Tree ID 89

No - 78

78.  Are the leaf margins smooth along the edge?

Yes - 82

No - 84

82.  Are the stipular scars around the twig nodes?

Yes - **Magnolia**, Magnolia Tree ID 59-63

No - 83

83.  Is there a true terminal bud present?

Yes - **Nyssa**, Tupelo, Blackgum, Sourgum, Black tupelo, Watergum Tree ID 83-85

No - **Diospyros virginiana**, Common persimmon Tree ID 88

84.  Are the leaves much longer than they are wide?

Yes - 86

No - 85

85.  Do the leaves have fine hair on the bottom?

Yes - **Morus Rubra**, Mulberry Tree ID 58

No - **Populus**, Cottonwood, Poplar Tree ID 26-27

86.  Are the leaves 4 or more times longer than they are wide?

Yes - **Salix Nigra**, Willow Tree ID 25

No - 87

87.  Are the teeth 5mm apart with bristly tips?

Yes - **Castanea**, Chestnut, Chinkapin Tree ID 33-34

No - 88

88.  Do the twigs taste bitter or sour?

Yes - 89

No - **Ilex**, Holly Tree ID 74-76

89.  Do the twigs have a terminal bud?

Yes - **Prunus**, Cherry, Black cherry, Wild cherry Tree ID 69

No - **Oxydendrum arboreum**, Sourwood Tree ID 87

93.  Are there any non-lobed leaves?

Yes - 94

No - 96

94.  Are the leaves serrated or smooth?

Smooth -**Sassafras albidum**, Sassafras Tree ID 65

Serrated - **Morus Rubra**, Mulberry Tree ID 58

96.  Are there stipular scars?

Yes - 97

No - **Liquidambar styraciflua**, Sweetgum Tree ID 66

97.  Are the leaves pinnately veined or palmately veined?

Pinnately - **Liriodendron tulipifera**, Yellow-poplar, Tupliptree Tree ID 64

Palmately - **Platanus occidentalis**, American sycamore Tree ID 67