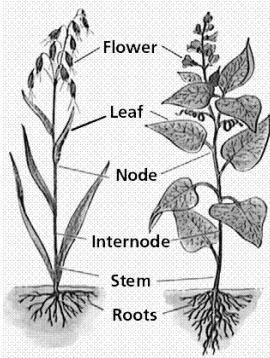


# Plant Skill-A-Thon Study Materials

## Lake County Fair

### Plant Parts *(Elementary, Middle & High School)*

Be able to identify the following six parts of a plant. Also, you will need to describe the function of each part.



#### **Plant Part Functions:**

1. Flower – responsible for plant reproduction
2. Leaf – catch light and make food for the plant
3. Node – structure that supports the leaf
4. Internode – space between nodes
5. Stem – transport water and nutrients throughout the plant and support the plant.
6. Roots – anchor the plant and absorb water and nutrients

### Plant ID *(Elementary, Middle & High School)*

Be able to identify and label the following plants common to Florida by their common name.

<p><b><u>Annuals/ Bedding Plants</u></b>            Caladium            Coleus            Impatiens            Marigolds            Pansies            Petunias            Snapdragons            Wax Begonia</p> <p><b><u>Flowers / Floral</u></b>            Baby's Breath            Carnation            Chrysanthemum            Gladiolus            Leatherleaf Fern            Orchid            Rose</p>	<p><b><u>Foliage</u></b>            African Violet            Boston Fern            Bromeliad            Easter Lily            English Ivy            Gardenia            Heart-shaped            Philodendron            Parlor Palm            Peace Lily            Poinsettia            Pothos            Rubber Plant</p>	<p><b><u>Shrubs</u></b>            Azalea            Border grass            Boxwood            Croton            Daylilies            Hibiscus            Indian Hawthorne            Juniper            Ligustrum            Loropetalum            Pittosporum Sweet            Viburnum</p>	<p><b><u>Trees</u></b>            Chinese Elm            Live Oak            Laurel Oak            Southern Magnolia            Crepe Myrtle            Queen Palm            Pygmy Date Palm            Sabal Palm</p> <p><b><u>Turf Grasses</u></b>            St. Augustinegrass            Bahiagrass            Bermudagrass</p>
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## **Insects** *(Elementary, Middle & High School)*

You must be able to identify the following common plant insects and their damages caused from pictures.

Aphids Cottony Cushion Scale Japanese Beetle	Lubber Grasshopper Mealy bugs Spider Mite	Wax Scale Whitefly – Adults	White Grub Cutworm
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### Helpful Websites:

<http://entweb.clemson.edu/cuentres/cesheets/ornament/index.htm>

<http://bugguide.net/node/view/15740>

<http://strano16.interfree.it/insects.htm>

## **Plant Propagation** *(Elementary, Middle & High School)*

You will be asked to match the following propagation methods with the description of the procedure for that propagation method.

### Propagation Methods

Stem Cuttings  
Leaf Cuttings  
Grafting  
Air Layering  
Division  
Tissue Culture

### Helpful Websites:

<http://www.mrgrow.com/Tips/tip597.htm>

<http://www.hcs.ohio-state.edu/mg/manual/prop2.htm#A>

## **Propagation Methods** *(Middle & High School Only)*

You may be required to demonstrate one of the propagation methods listed in the previous section.

## **Fertilizer Calculation** *(High School Only)*

You will be asked to answer questions similar to the following regarding liquid fertilizer calculations:

1. Determine the recommended rate of fertilizer application. Example: 8 ounces per 100 gal or 200 ppm nitrogen.
2. Determine which fertilizer formulation to use and its analysis. Example: 20-10-20.
3. Determine the injection ratio for the injector to be used. Example: 1:100.
4. Determine the size of the stock tank in gallons. Example: 25 gallons.

### Helpful Website:

<http://www.ag.auburn.edu/hort/landscape/fertilizercalc.html>