

Plant Analysis Worksheet

Unknown #: _____ Family: _____

Binomial: _____ Common Name _____

Synonyms: _____

<u>A. Vegetative Features</u>			
Root type (tap, fibrous, etc.)		Leaf Structure (simple / compound)	
Leaf arrangement (alternate / opposite / whorled)		Leaf Compounding (if applicable - pinnate, palmate, dissected)	
Leaf/Leaflet shape			

<u>B. General Floral Features</u>			
Inflorescence maturation (determinate, indeterminate)		Floral Organs (complete / incomplete - then which missing?)	
Inflorescence type (spike, raceme, etc).		Floral sex (perfect / imperfect)	
Bracts (present / absent)		Floral type (bisexual / staminate / pistillate)	
Floral symmetry (regular / irregular)		Plant Sex (hermaphroditic, monoecious, dioecious)	
Floral symmetry (actinomorphic / zygomorphic)		Floral Attachment (sessile, pedicillate)	
Floral Merosity (3-merous, etc)		Hypanthium (present / absent)	

<u>C. Perianth</u>			
Sepals (absent / present - if present, give number)		Corolla (absent / present ; if present, give number)	
Sepal fusion (distinct / connate).		Corolla fusion (distinct / connate).	
Perianth layers (1 / 2)		Tepals (present / absent)	
Perianth shape (campanulate, rotate, salverform, bilabiate, etc)		Spur (present / absent)	

<u>D. Androecium</u>			
Stamen number		Stamen adnation (free / epipetalous)	
Stamen fusion (distinct / connate).		Staminodes (absent / present)	

<u>E. Gynoecium</u>			
Stigma / Style Number		Carpel Number	
Ovary Position (superior / inferior)		Floral Insertion (epigynous / hypogynous / perigynous)	
Gynoecium type (uni-, apo-, syncarpous)		Ovules (approx. number in each ovary)	
Placentation type (axile, parietal, etc.)			

E. Fruit			
Fruit texture (dry, fleshy)		Fruit Type (legume, achene, etc)	
Fruit Opening (dehiscent / indehiscent)			

F. Floral Formula:

G. Illustrations – (a) *whole plant (including leaf shape)*, (b) *flower front view*, (c) *flower side view*, (d) *stamen*, (e) *pistil*