

**Flowering parts in 3s** (or multiples)  
**Leaves with parallel veins**

Lily, Orchid, & Iris

**Flowering parts in 4s**

Leaves with veins in branching pattern

Evening Primrose  
Mustard

**Flowering parts in 5s** (leaves with branching veins)

Flowers with **bilateral symmetry**

Mint  
Figwort

Pea  
Violet  
Buttercup - some

Petals fused  
Petals free

Flowers with radial symmetry

Many **small flowers in tight bunches**

Buckwheat  
Parsley  
Waterleaf  
Valerian  
Rose - some

Buttercup  
Rose  
Sunflower — technically belongs with "Many small flowers in tight bunches"

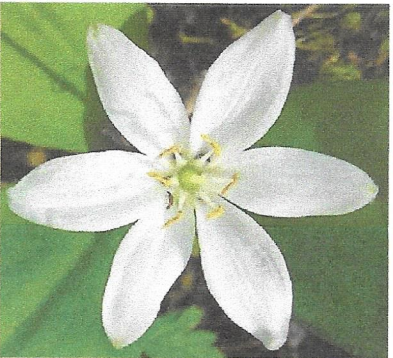
Flowers not in tight bunches

Flowers with **central clusters** or seemingly so (more than 10 stamens crowding the center)

Normal flowers (10 or fewer stamens) (or just use the "handles" to id. these 7 Families)  
Petals fused  
Petals free (or nearly so)

Heath  
Phlox  
Primrose  
Borage

Pink  
Purslane  
Saxifrage



### Lily Family

- Flowers: radial
- 6 tepals & 6 stamens



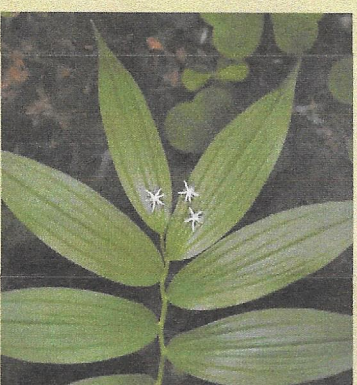
### Iris Family

- Flowers: radial
- 6 tepals & 3 stamens
- Leaves: basal in flat plane



### Orchid Family

- Flowers: bilateral
- Lower petal forming lip or bowl



### Leaves

#### Parallel veins

- Lily Family
- Iris Family
- Orchid Family



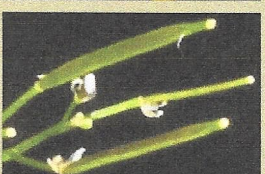
- Flowers: petals 4
- Ovary inferior & elongate
- Leaves: often opposite
- Long seed pods & 4 sections

### Evening-Primrose Family



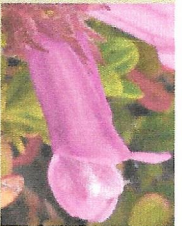
#### Flower parts in 4s

#### Flower parts in 3s



### Mustard Family

- Flowers: petals 4
- Ovary superior.
- 6 stamens – 4 long, 2 short usually
- Leaves: alternate
- Seed pods in many shapes. 2 sections



## Figwort Family

- Flowers: bilateral symmetry
- Petals fused
- Leaves: opposite or alternate



## Mint Family

- Flowers: bilateral symmetry
- Petals fused
- Leaves: opposite
- Square stems
- Aromatic usually

5s Bilateral..... Fused

5s Bilateral..... Free

## Pea Family



- Flowers: bilateral symmetry
- Petals free or nearly so
- Upper petal the largest
- Leaves: compound

## Violet Family

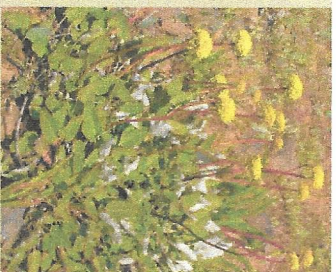


- Flowers: bilateral symmetry
- Petals free
- Lower petal the largest
- Leaves: simple



## Buckwheat Family

- Flowers: small & in tight bunches
- 6 tepals form small flowers
- Leaves: basal or on stem
- Leaves entire & usually not toothed



## 5s Radial Bunches

- Flowers: small - forming bottlebrush or oval clusters
- Stamens long exerted
- Leaves: usually pinnately compound

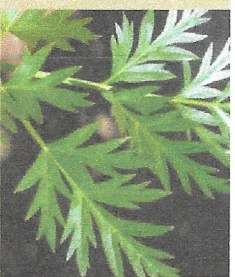
## Waterleaf Family

(In Borage Family now)



## Parsley Family

- Flowers: small & in true umbels
- Leaves: usually compound & often fern-like or carrot-like



- Flowers: small & in dense clusters
- Petals fused into narrow 5-lobed tube
- Small family

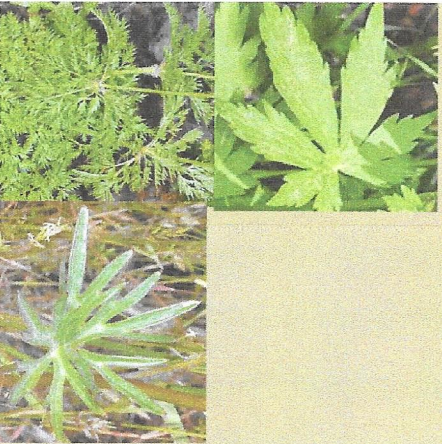
## Valerian Family





## Buttercup Family

- Flowers: petals 5 to 12
- Flowers radial or bilateral
- Flowers simple to elaborate
- Leaves: compound or deeply divided



## Rose Family

- Flowers: petals 5
- Flowers radial
- Leaves: often oval & serrated



## Sunflower Family

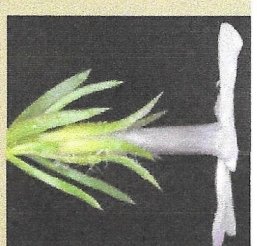
- Flowers: appear many "petaled"
- Central cluster present or appears to be absent entirely.
- A compound flower: tiny flowers with 5 fused petals. All flowers packed into a single head.

5s Radial Not bunches  
Central clusters



## Heath Family

- Flower: Petals fused into bells or urns



## Phlox Family

- Flower: petals fused forming a tube with nearly perpendicular lobes
- Leaves: often narrow or like ladder

## Primrose Family

- Flower: petals fused & sometimes reflexed
- Leaves: often basal



## 5 Radial Not bunches Normal Flowers Petals Fused

- Flower: petals fused
- Some flowers with central ring
- Fiddleheads often
- Plant often hairy



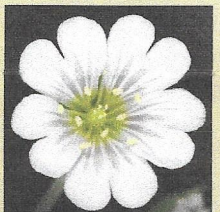
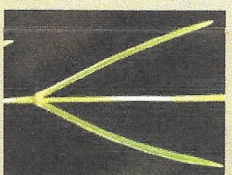
## Borage Family

(Includes Waterleaf now)



## Purslane Family

- Flowers: petals free, pink stripes often, 2 sepals
- Leaves: often succulent



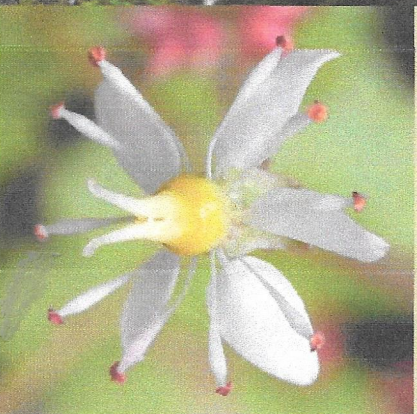
## Pink Family

- Flowers: petals free, often notched or divided
- Leaves: opposite, often narrow & borne on enlarged nodes

5s Radial Not bunches  
Normal Flowers Petals Free

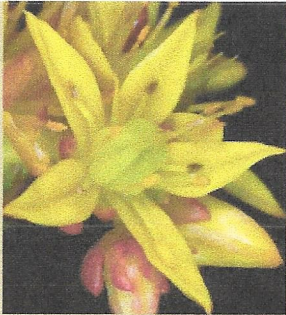
## Saxifrage Family

- Flower: petals free, stigmas 2 & often flaring apart
- Leaves: often basal



## Sedum Family

- Small very succulent plants with short fleshy leaves
- Flowers: petals free & yellow



## Appendix

### Unique Plants

## Current Family

- Medium sized shrub to about 6'
- All have maple shaped leaves
- All have berries
- Flowers: petals fused

