CALIFORNIA NATIVE PLANT SOCIETY FLOWER STUDY KIT

How many flowers do students have to learn?
Kindergarten - 10
First grade - 15
Second grade - 20
Third grade - 25
Fourth grade - 30
Fifth grade - 35
Sixth grade - 40, classified by family
Seventh grade - also learn flower parts and their basic function
Eighth grade - also key out one tree and two flowers

Students may choose to learn any flowers in the kit.
Since this test is for junior botanists some things have been simplified. Adults should be aware there are nine species of Indian paintbrush in Marin, two species of mule ears, three species of iris, two species of fiddleneck (one of which has two subspecies), two species of trillium, and five purplish larkspurs. There is another plant in the same genus as the star lily which looks similar, and two other plants in the same genus as hog fennel which look similar. In the case of all the other flowers the common name refers to a specific species.

Here are some things to point out to children that may make learning the flowers easier.
Mule ears are named for the big leaves that look like a mule's ears.
The petals of mouse ears each have two lobes like the ears of a mouse.
Mouse ears and milkmaids are both white, but notice mouse ears have five petals and milkmaids have four petals.
Leopard lilies have spots just like a leopard.
Chinese houses look like a pagoda.
Mission bells hang down like bells.
Milkmama are white like milk.
Buttercups and sun cups are both yellow, but suncups have four petals and buttercups have many shiny petals.
Pussy ears look fuzzy with hairs on the petals.

Interesting flower facts
Native Americans used poppies for toothache.
A tea from yarrow was used for toothache, earache, and cleansing wounds.
The outer leaf fibers of Douglas iris were used to make rope.
Women scraped the fibers off with shells, and men made the rope.

Flower Photographs:

Yarrow/Cow Parsnip
Violets
Mouse Ears/Miner's Lettuce/Milkmaids
Lupine/Hillside Pea/Tomcat Clover
Mule Ears/Tidy Tips
Orchids
Buttercups/Sun cups/Seep-Spring Monkey flower
Solomon's Seals/Fairy Bells/Indian Pink
Indian Paintbrush/Indian Warrior/Owl's-Clover
Starlily/Mariposa
Footsteps of Spring/Hog Fennel/Purple Sanicula
Thistle/Sneezeweed/Cream Sacs/Butter & Eggs
Mission Bells/Leopard Lily
Trilliums
Douglas Iris/Ground Iris/Blue Eyed Grass
Bee Plant
Columbine/Larkspurs
Fiddle neck/Hound's Tongue/Morning Glory
Pussy Ears/Baby Blue Eyes
Lupine/Chinese Houses/Checkerbloom
Bleeding Hearts/Shooting Stars/California Poppy
CALIFORNIA NATIVE PLANT SOCIETY FLOWER STUDY KIT FLOWERS BY FAMILY

To become a sixth grade Junior Botanist, students must begin to classify flowers by family. They must learn 40 flowers and be able to say what family 30 of them are in. Some will be easy - poppies in the Poppy Family, buttercups in the Buttercup Family, violets in the Violet Family. Others will take some study. Note that the Pink Family has nothing to do with the color pink. Many flowers in this family have lobed or notched petals as if they had been cut with pinking shears which gave rise to this name. Families of flowers in the study kit are as follows:

**Poppy Family**
- Bleeding hearts
- California poppy

**Sunflower Family**
- Mule Ears
- Cobweb Thistle
- Sneezeweed
- Yarrow
- Tidy tips

**Lily Family**
- Mission bells
- Leopard Lily
- Trillium
- Fairy bells
- Solomon's seal
- Pussy ears
- Starlily
- Mariposa

**Mallow Family**
- Checkerbloom

**Iris Family**
- Douglas iris
- Blue eyed grass
- Ground iris

**Buttercup Family**
- Buttercup
- Columbine
- all Larkspurs

**Pea Family**
- all lupines
- Tomcat clover
- Hillside Pea

**Orchid Family**
- Rein orchid
- Calypso orchid
- Marsh Orchid

**Morning Glory Family**
Morning glory

**Violet Family**
- all violets

**Carrot Family**
- Purple sanicle
- Footsteps of spring
- Cow parsnip
- Hog Fennel

**Pink Family**
- Indian pink
- Mouse-ears

**Mustard Family**
- Milkmaids

**Evening Primrose Family**
- Suncups

**Snapdragon Family**
- Indian paintbrush
- Indian warrior
- Owl's Clover
- Monkey flower
- Chinese houses
- Cream sacs
- Butter and eggs
- Bee plant

**Borage Family**
- Fiddleneck
- Hound's tongue

**Waterleaf Family**
- Baby blue eyes

**Primrose Family**
- Shooting star

**Purslane Family**
- Miner's lettuce
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INDIAN PAINTBRUSH

INDIAN WARRIOR

OWL'S CLOVER
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MULE EARS

TIDY TIPS
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DOUGLAS IRIS

GROUND IRIS

BLUE EYED GRASS
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FIDDLENECK

HOUND'S TONGUE

MORNING GLORY
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WOODLAND TRILLIUM

REDWOOD WAKEROBIN
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COLUMBINE

LARKSPUR

RED LARKSPUR
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GOLDNUGGET MARIPOSA

STARLILY

STARLILY
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FOOTSTEPS OF SPRING

HOG FENNEL

PURPLE SANICLE
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MOUSE EARS

MINER'S LETTUCE

MILKMAIDS

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MISSION BELLS

LEOPARD LILY
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LUPINE

CHINESE HOUSES

CHECKERBLOOM
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BUTTERCUPS

SUNCUPS

SEEP-SPRING MONKEYFLOWER
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PUSSY EARS

BABY BLUE EYES
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BLEEDING HEARTS

SHOOTING STARS

CALIFORNIA POPPY
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YARROW

COW PARSNIP
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REDWOOD VIOLET

STREAMSIDE VIOLET

TWO EYED VIOLET
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PALE LEAVED LUPINE

SMALL SEED LUPINE

HILLSIDE PEA

TOMCAT CLOVER
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CALYPSO ORCHID

REIN ORCHID

MARSH ORCHID
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FAT SOLOMON'S SEAL

SLIM SOLOMON'S SEAL

WHITE FAIRY BELLS

INDIAN PINK
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COBWEB THISTLE

SNEEZEWEEDE

CREAM SACS

BUTTER AND EGGS
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BEE PLANT