



Mable Ringling, who designed and lived in Ca' d'Zan, loved roses. She was an avid gardener who collected lots of plants including interesting and exotic trees, shrubs, and of course, roses. Mable loved Italy and Italian gardens and she wanted to bring some of that charm home to Sarasota. The garden is set up in a wagon wheel pattern, and Italian sculptures can be found dotted throughout the garden.

There are over 400 rose plants in this garden! Roses come in many varieties such as China, hybrid tea, floribunda, grandiflora, miniature, and shrub. Many varieties in this garden were found in nature, while others were hybridized to create new types of roses. Some are very fragrant while others barely have a scent. The roses come in red, pink, white, yellow, purple and colors in between.

To learn more about Mable's Rose Garden, [click here](#).

To learn more about the Bayfront Gardens, [click here](#).

## GENETIC INHERITANCE

Genes are what make us unique. Roses have genes too, and the genes that we can see such as rose color, or leaf shape, are called the phenotype. There are many different phenotypes for rose flower color—red, pink, yellow, white, purple, or something inbetween. We can predict the color of flowers by using the Punnett square. Let's represent red flowers as **R** and white flowers as **w**. The capital **R** is more powerful than the lowercase **w**, so when a plant has both **R** and **w**, we will see red flowers. What flower color would two **w** genotypes produce?

	<b>R</b>	<b>w</b>
<b>R</b>	<b>RR</b>	<b>Rw</b>
<b>w</b>	<b>Rw</b>	<b>ww</b>

## STANDARDS:

SC.7.L.16.2

SC.3.L.14.1

# ACTIVITY

ROSES + BOTANICAL PRINTS

## MATERIALS:

THIS WORKSHEET OR BLANK PAPER  
AND A PENCIL

DIFFICULTY LEVEL:

MODERATE

## DIRECTIONS

Before photography was invented, scientists relied on drawings to document and study plants. When scientists would go out to study a plant they would draw it and label all the different parts so they could study in their laboratories. FIND a plant in your neighborhood and sketch it below.

Use these words to label your sketch:

STEM BRANCH FLOWER BUD PRICKLE (THORN) LEAF ROOTS PETAL

## WE WOULD LOVE TO SEE WHAT YOU CREATE!

Click [here](#) to share your masterpiece on our Family Programs Facebook Group!



### Try pressing fresh flowers and plants at home!

Lay a plant between two pieces of white paper and pressing it between heavy books for 1-2 weeks.