

JUST FOR U.S.*

GRADES 4-5

*Understanding Science

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Roses are beautiful. Do you ever think about which rose is the most beautiful? People who grow roses think about this. In fact, roses get grades. Getting a good grade is hard for a rose. No rose has ever gotten a perfect grade!



A new rose that is getting a grade is called a test rose. Growing a test rose is real science. Each test rose has at least 3 bushes. Each test rose bush has its own number. Each test rose bush is watered the same amount.

When the roses are ready, they are graded on many things, like color and fragrance.

EXAMPLES OF COLOR are



white
yellow
coral
apricot
orange
pink
red
mauve
russett

EXAMPLES OF FRAGRANCE are

apple
clove
fruit
lemon
raspberry
parsley
spice
and
classic rose smell



Roses are also graded on their shape, number of buds, how they age, what the leaves look like and how many diseases they get.



There are no blue roses!

A rose that gets a good grade will get a name instead of a number.
Roses have interesting names like . . .



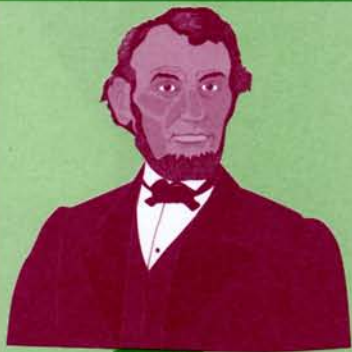
Fire King
Iceberg
Cupcake
China Doll



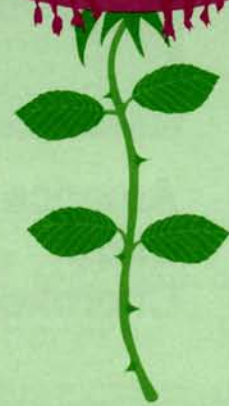
Snow Bride
Yellow Doll
Love
Honor



Pink Parfait
Cinderella
Aloha
Popcorn



Roses are also named after people. There is the Mr. Lincoln and the Whoopi (Goldberg). We even have a rose named after someone who used to work at Fernbank Science Center. It is the Mary Adrienne. It is a deep coral rose with a mild apple fragrance.



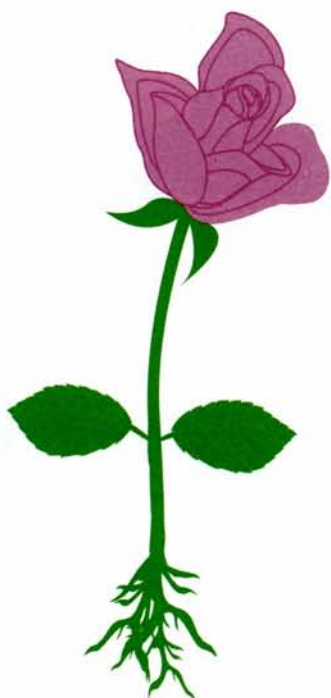
Fernbank Science Center has a rose garden. We have 129 different test roses and 90 named roses. You can visit our rose garden at 767 Clifton Road. The garden is open daylight hours Tuesday through Sunday and is free. On June 1, we will be having Rose Garden Day. You can get a real rose grade sheet and learn how to grade roses. Come visit! We have over 1,300 rose bushes.

Many roses are grafted. This means the flower and the roots come from two different plants. Why is this done? Only some roses grow well on their own roots in Atlanta. With grafting, many roses grow well in Atlanta.

Here is how it works

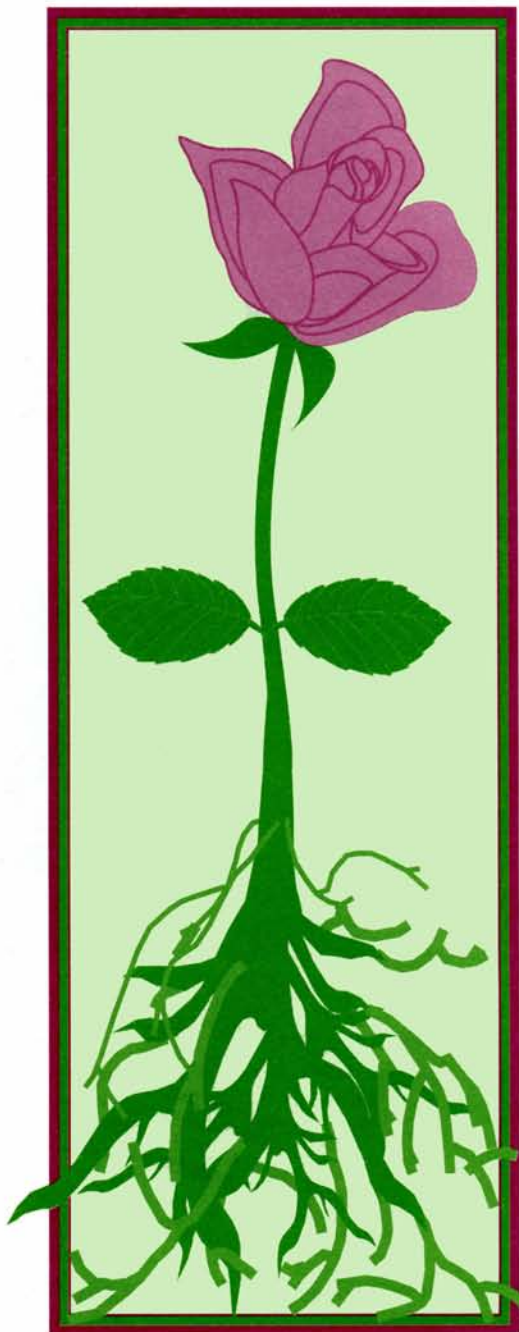
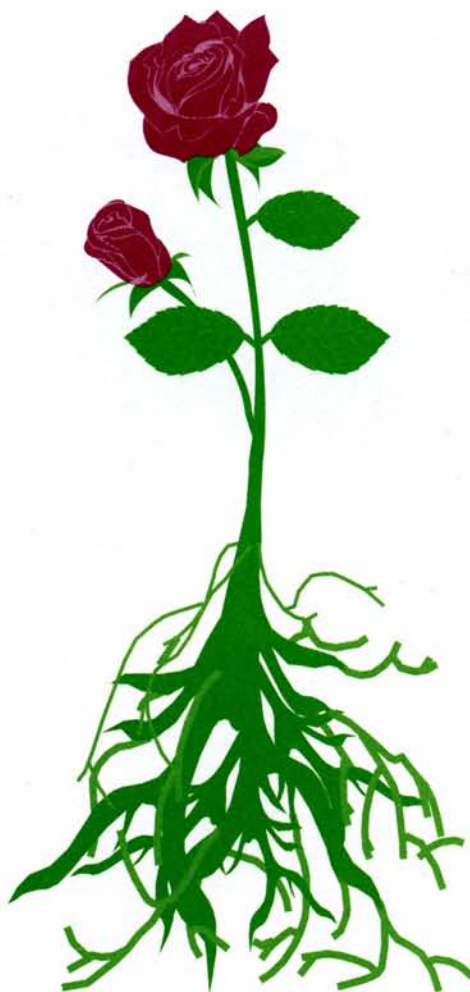
ROSE 1

Meet *Pink Peace*.
Pink Peace is a pretty rose but it has bad roots for Atlanta.



ROSE 2

Meet *Dr. Huey*.
Dr. Huey has good roots for Atlanta.



Scientists cut a stem from *Pink Peace*. They take roots from *Dr. Huey*. They put the *Pink Peace* stem on the *Dr. Huey* roots. The two pieces grow together and make one plant. Now *Pink Peace* flowers grow on *Dr. Huey* roots. Most of the roses in our rose garden grow on *Dr. Huey* roots.

Fun Facts about Roses

Roses do not have thorns. Thorns grow as part of the stem. Roses have prickles. Prickles can be snapped off.



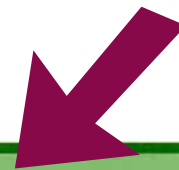
Fossils show that the rose has existed for 100 million years.



Congress declared that 2002 is the Year of the Rose.



The state flower of Georgia is the Cherokee Rose. Three other states have the rose as their state flower. They are New York, Iowa and North Dakota. Can you find them on the map?



Visit your school or public library to learn more about the legend of the Cherokee Rose.



ROSE FUN



Here are some more rose names. When you are finished, start from the top line and write the first 16 letters that are not part of a rose name on the lines below. You will find a secret message!

A	H	N	A	V	E	A	N	N	E
M	I	C	O	E	S	R	U	Z	Z
E	M	M	E	I	O	R	I	E	A
R	L	D	S	C	L	R	P	E	L
I	P	A	P	G	P	D	E	K	B
C	D	O	D	T	O	C	E	O	U
A	P	U	S	Y	Z	N	N	R	A
P	D	R	T	L	X	G	U	E	F
Z	I	W	I	T	I	K	M	H	K
F	E	C	A	E	P	H	A	C	D

**America
Blaze
Cherokee**

**First Prize
Lady X
Peace**

**Popcorn
Red Lion**



Look around you. There may be roses in your yard at home or in gardens at your school. What are the names of the roses? What color are they?