

100.N-10



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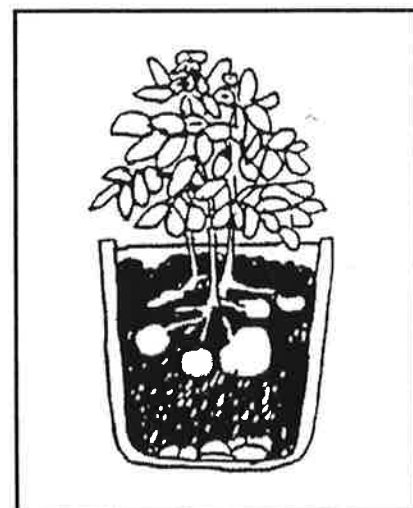
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# Cloverbuds

A 4-H DISCOVERY PROGRAM FOR 5-6 YEAR OLDS

## The Way Things Grow



**Member Guide**



COOPERATIVE EXTENSION SERVICE

Adapted from Minnesota Extension Service Cloverbuds Program

# Cloverbuds

## A 4-H Discovery Program



My Name is: \_\_\_\_\_

My Club Name is: \_\_\_\_\_

I am \_\_\_\_\_ years old



My Address is: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



My Phone Number is: \_\_\_\_\_

The Names of My Family  
Members are:

Age

\_\_\_\_\_ ( )

\_\_\_\_\_ ( )

\_\_\_\_\_ ( )

\_\_\_\_\_ ( )

\_\_\_\_\_ ( )

\_\_\_\_\_ ( )

\_\_\_\_\_ ( )

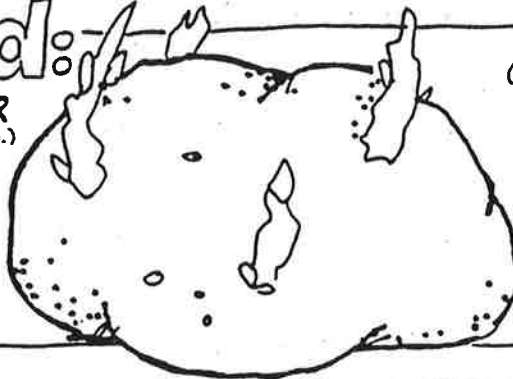


# Bucket of Spuds

Plant a potato in a large bucket and you should get a bucketful in about 4 months. Early spring or fall is the best time to plant.

## You need:

- A LARGE CONTAINER (IT MUST HAVE DRAINAGE HOLES.)
- A POTATO
- SOIL
- COMPOST



Choose a potato with lots of eyes. These are buds that will begin to sprout if the potato is left in a light, airy place.

## You Do:

1



Half fill your container with soil. Mix in a little compost.

4



Keep covering the plant until the bucket is full. Keep the soil damp.

2



Make a hole in the soil large enough to take the potato. Leave the 2 strongest shoots on and rub the rest off. Bury the potato.

5



When the plant flowers, it's a sign that things are happening underground. When the flowers die, stop watering. Potatoes will have formed and wetness might make them rot. When the whole plant dies, tip the soil out and see how many potatoes you grew!

3



In 3 or 4 weeks when green shoots appear above the ground, add just enough soil to cover them again. This makes the stem push upward while little potatoes form below the ground.

This is how I plan to cook and eat my spuds: \_\_\_\_\_

MAKE  
A

# TERRARIUM

## You need:



A large jar  
with lid



Pebbles and  
pretty rocks



Sand



Moist  
dirt

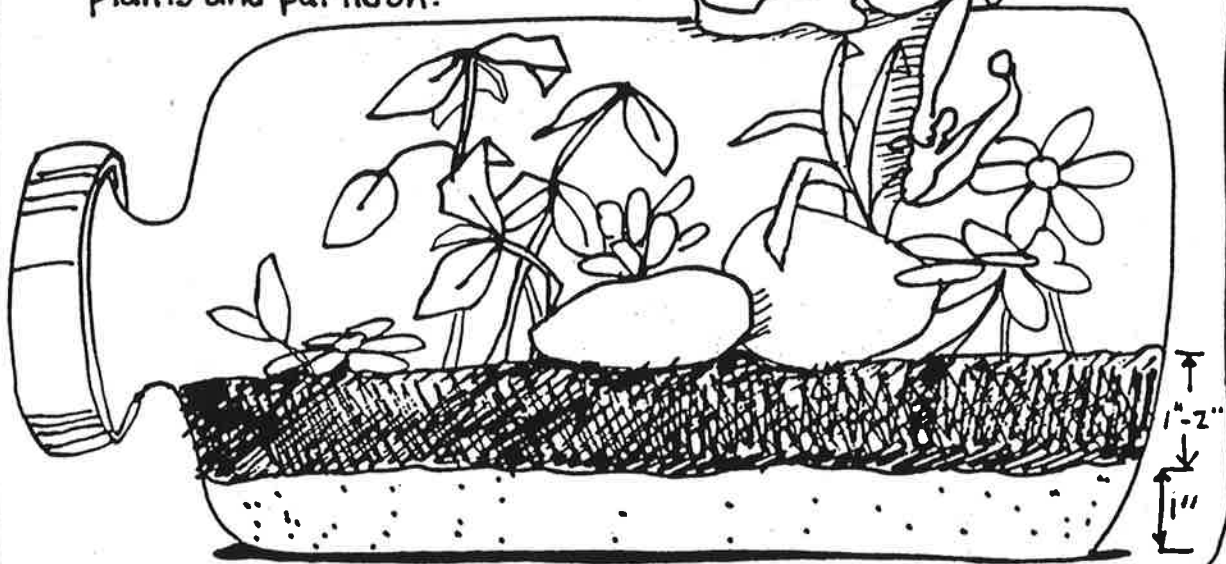


Small plants  
and straw flowers.

## You do:

Wash and dry the jar (remove label). Add pebbles and sand in a 1 inch layer. Add a layer of dirt 1"-2" deep. Transplant the plants into jar. Stick in some strawflowers. Sprinkle lightly with water. Place rocks around the plants and put lid on.

When the  
straw flowers  
get dry and  
open up, it's  
time to  
water.



Keep your terrarium in a light place. No direct sun, please!

Find and color  
10 garden things  
in this picture.

Try the garden word search game too!



1. Many kinds of \_\_\_\_\_ grow in gardens.
2. The part of lettuce that we eat.
3. Many of these are garden pests.

1. Bright green vegetable.
4. Garden tool.
5. Thirsty plants need plenty of \_\_\_\_\_.
6. Plants that live for only one growing season.
7. Plants start out as \_\_\_\_\_.
8. Gardens give us good \_\_\_\_\_ to eat.

hoe  
pea  
foods  
seeds  
insects  
plants  
water  
annuals  
leaves

# Yum!

Fresh treats from the garden are tasty and good for us.

We eat **seeds** of some plants. Draw some seed foods here.

We eat **roots** of some plants. Draw some root foods here.

We eat **fruits** of some plants. Draw some fruits here.

We eat **leaves** of some plants. Draw some leaf foods here.

Turn your paper over and draw your favorite garden treat. Tell what you do to the food to make it ready to eat.



# Rag Doll Test

## You need:



paper towels



waxed paper



quart jar



seeds



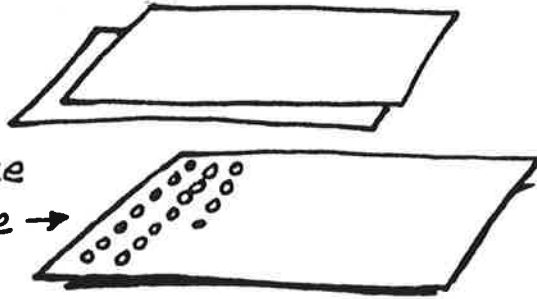
string



water

## You do:

1. Lay a sheet of waxed paper (about 12"x12") on a flat surface
2. Place 100 small seeds or 50 large seeds in rows on the waxed paper.

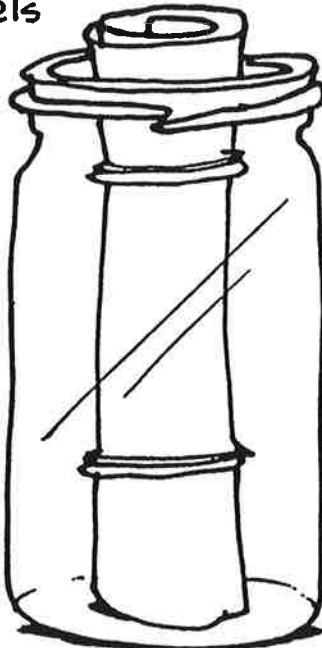


3. Place two paper towels over the waxed paper and the seeds.

4. With your fingers, sprinkle water over the two paper towels until they are wet.

5. Roll the waxed paper and paper towels and tie with string as shown.

6. Without bending the roll, place it in the quart jar and set it in a warm place.



7. Check the roll daily. If it becomes dry, sprinkle it with water.

8. In 5 days take the roll from the jar. Untie the string. Unroll and gently separate the towels from the waxed paper. How many seeds sprouted?

\_\_\_\_\_

# Seed Search

How many plants can you name whose seeds make tasty treats for people? Check out the puzzle below. Names are across and down.

r	t	s	b	j	r	c	w	s	b	j	u
o	c	p	e	a	h	a	j	e	n	d	p
n	p	r	a	z	e	s	k	s	k	v	o
c	o	r	n	i	t	h	a	a	i	p	p
o	p	a	z	p	c	e	w	m	i	j	p
c	c	s	t	r	a	w	b	e	r	r	y
o	o	p	l	e	l	r	y	a	n	i	k
n	r	b	y	o	m	l	o	m	f	c	o
u	n	e	l	y	o	s	u	b	m	e	g
t	o	r	s	u	n	f	l	o	w	e	r
m	u	r	c	m	d	s	d	a	n	h	o
s	l	y	a	d	m	n	o	l	o	x	m



Did you  
find  
13?

Look for these seeds:

coconut	poppy	sunflower	cashew	strawberry	raspberry	corn	rice	pea
sesame	popcorn	bean	almond					

Adapted from A Teacher's Guide for Arbor Month, Minnesota Arbor Month Committee. Used with permission.

# Here's the dirt!

You need:

- soil samples from many different places.
- clear jars with lids
- water



1. Put a handful of each different soil in separate glass jars.
2. Fill the jars with water and shake until the water looks cloudy.
3. Set the jars aside. Check after an hour or two. What do you see? \_\_\_\_\_

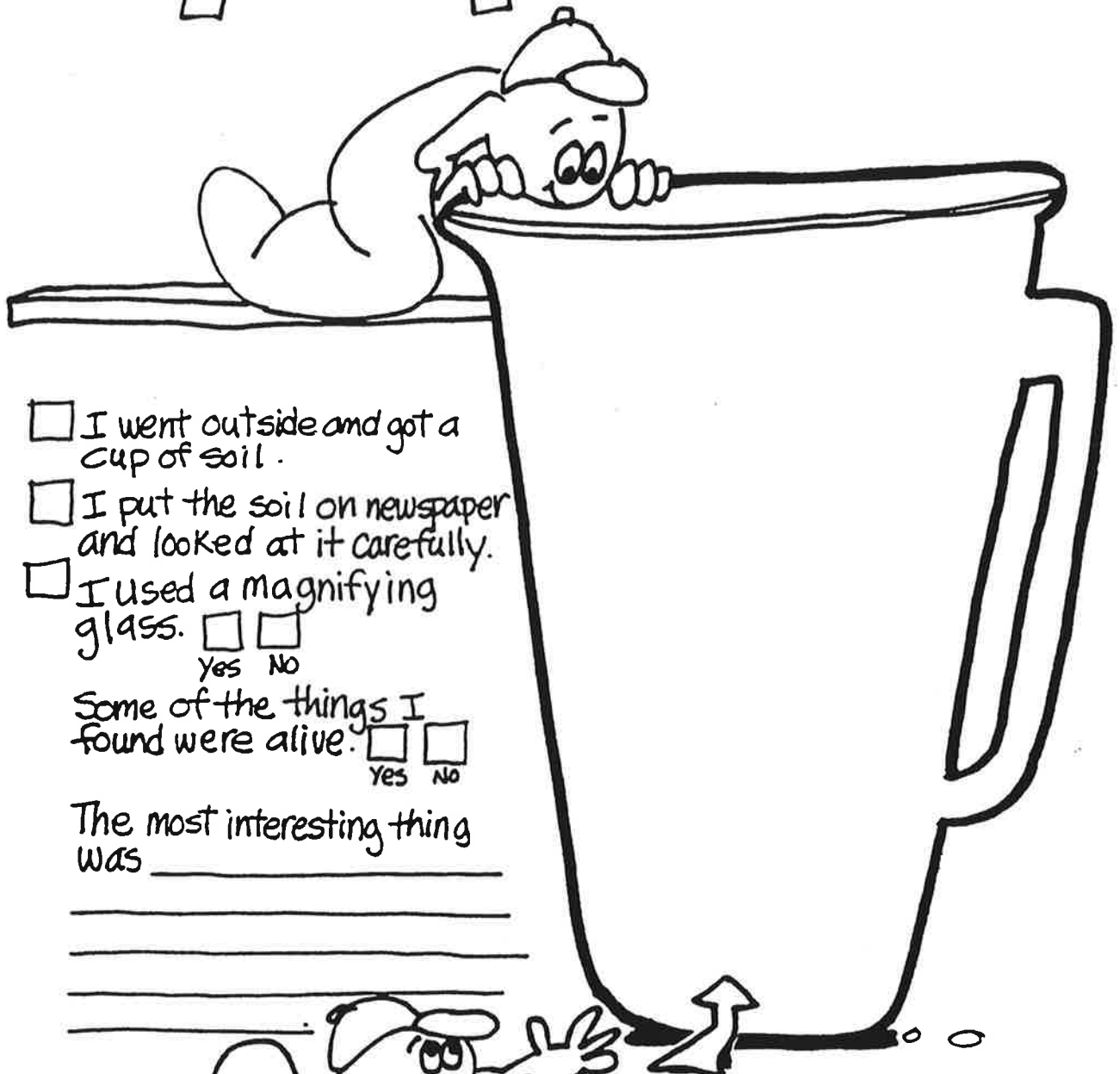
How are the samples different? \_\_\_\_\_

What does this tell you about soils? \_\_\_\_\_

Largest soil pieces sink to the bottom; finer particles float to the top. Sometimes you'll also see a layer of fibrous pieces (humus). Good garden soil is a mix of fine and coarse particles. See your leaders' Guide for more about dirt!



# My Cup of Soil



- ☐ I went outside and got a cup of soil.
- ☐ I put the soil on newspaper and looked at it carefully.
- ☐ I used a magnifying glass. ☐ ☐  
Yes No

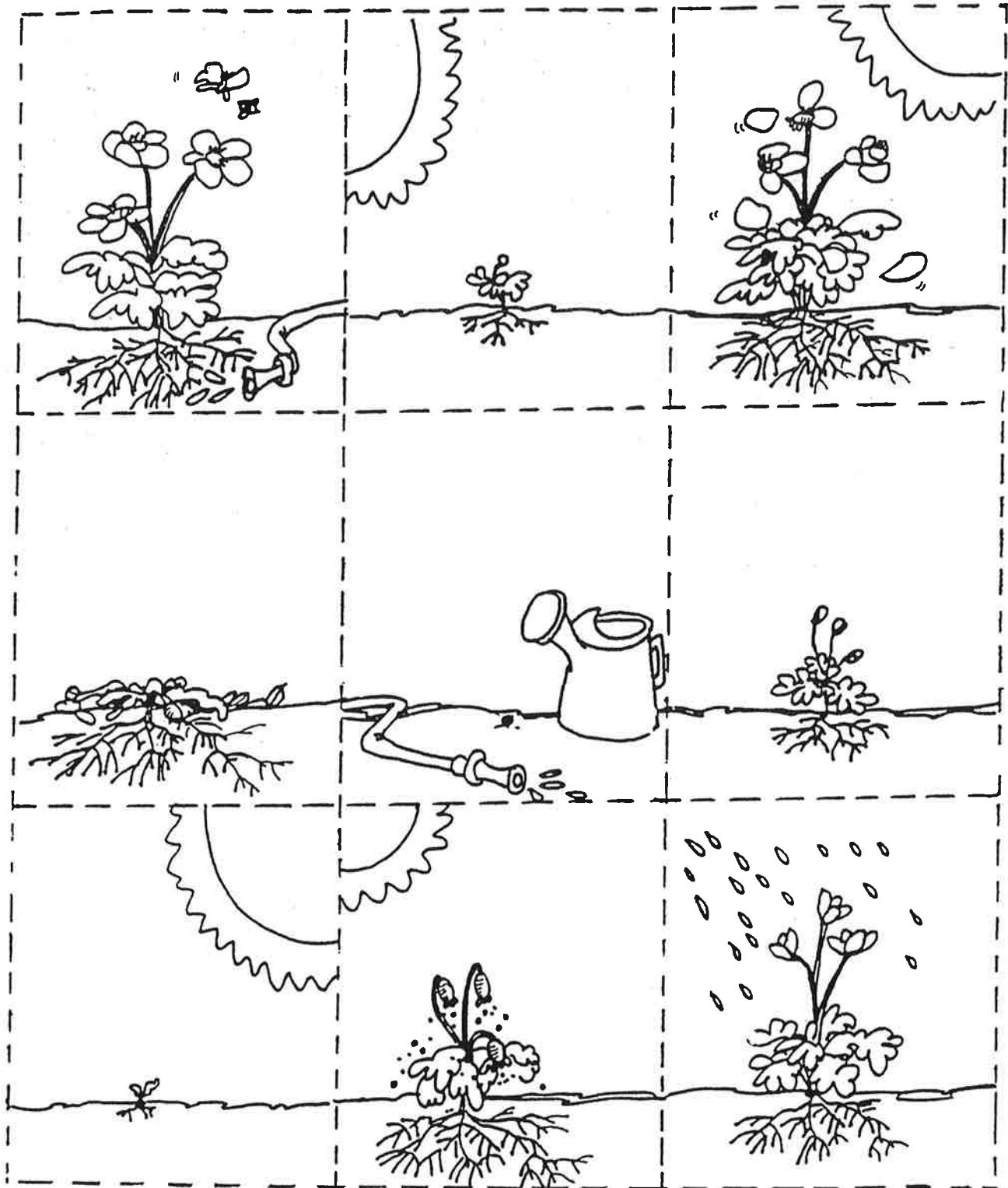
Some of the things I found were alive. ☐ ☐  
Yes No

The most interesting thing was \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Here are some pictures I drew of the things I found in my soil.

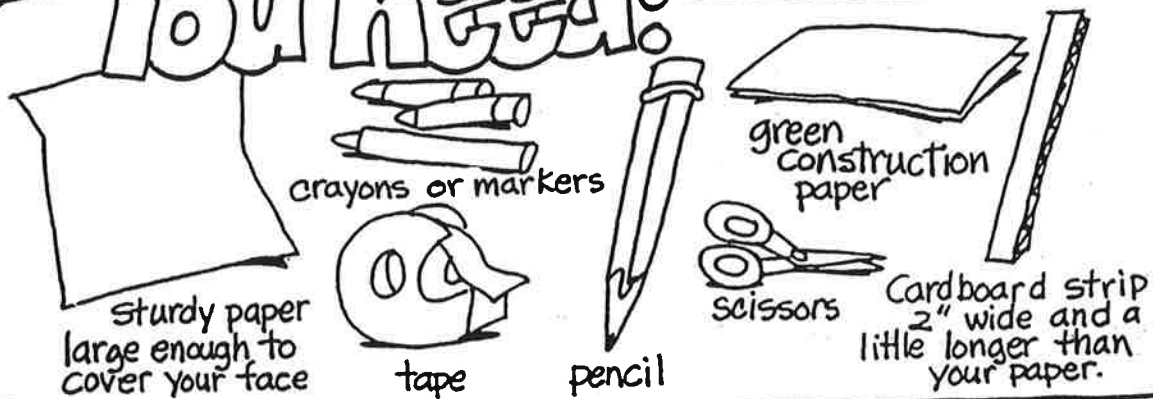
# Life cycle of a flower

Color these pictures. Cut them out and put them in order by pasting them on a larger sheet of paper.



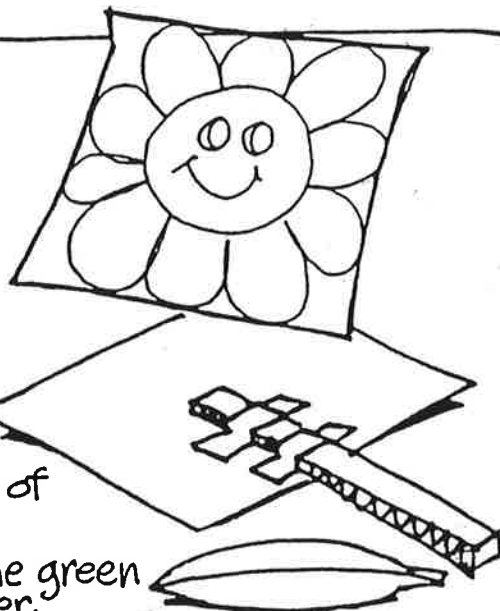
# Flower Fun!

## You need:

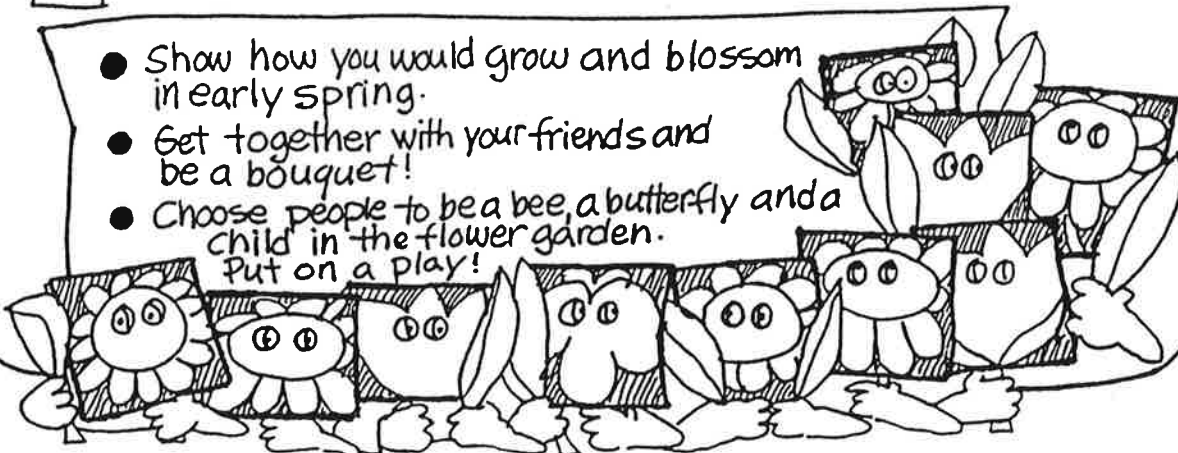


## You do:

1. Draw a flower face that covers the paper.
2. Poke eye holes with the pencil. (Measure with your fingers to see how far apart to put the holes.)
3. Tape the cardboard handle to the back of the flower.
4. Cut leaves from the green construction paper.
5. Hold your flower mask and leaves and pretend you're a flower!



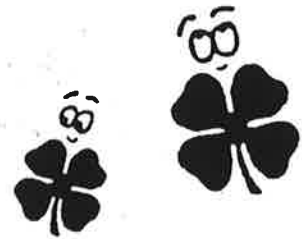
- Show how you would grow and blossom in early spring.
- Get together with your friends and be a bouquet!
- Choose people to be a bee, a butterfly and a child in the flower garden.  
Put on a play!



# Participation Summary

## Cloverbuds

A 4-H DISCOVERY PROGRAM



My name is \_\_\_\_\_

My address is \_\_\_\_\_

I belong to the \_\_\_\_\_ Club. This is  
my \_\_\_\_\_ year in the program. I am in the \_\_\_\_\_ grade  
in school.

The activities I worked on this year were \_\_\_\_\_



Draw a picture of your project or your favorite  
Cloverbuds: A 4-H Discovery Program activity below.

This year I learned how to: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Here are some  
pictures of me in  
Cloverbuds!

This summary designed by Ron Tjosvold, Scott County, Minnesota.



Revised by Dr. Wendy Hamilton, 4-H Youth Development Specialist;  
Cathy Blythe; and Lynden C. Armstrong, New Mexico State University  
Cooperative Extension Service, November 1993.

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