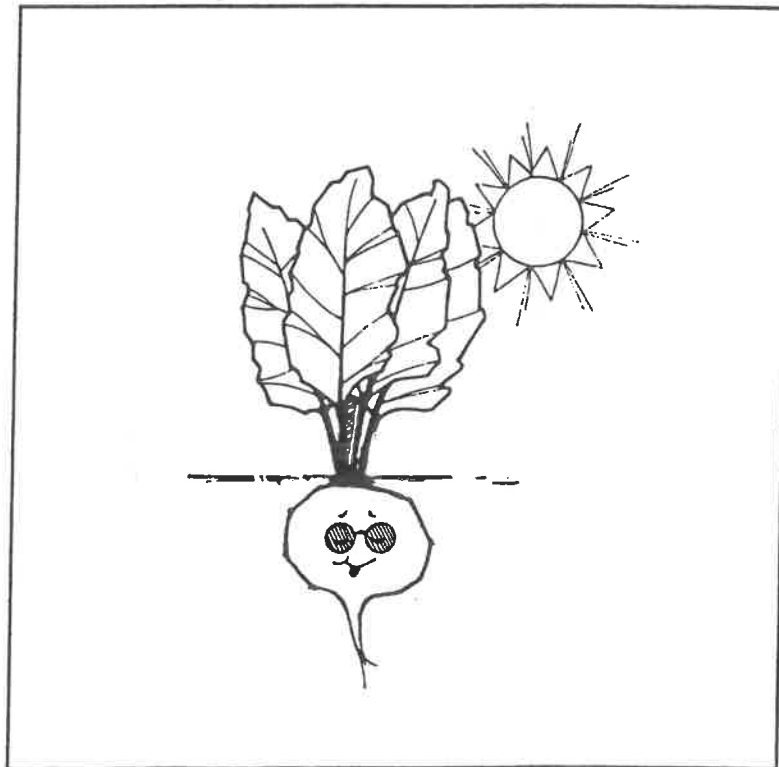




Mini 4-H

Gardening

All Divisions



Draft

Developed by

**Purdue University Cooperative Extension Service
Area 7 Youth Educators**

(Blackford, Delaware, Fayette, Franklin, Henry, Jay, Madison,
Randolph, Rush, Union, & Wayne Counties)

PURDUE UNIVERSITY, INDIANA COUNTIES AND U.S. DEPARTMENT OF AGRICULTURE COOPERATING
AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY INSTITUTION

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Please Note: As a professional courtesy, the Area VII Extension Educators request that these materials NOT be copied or duplicated in any means. Copies of the materials may be requested for purchase.

Resources and References

Mini 4-H Garden Manual, Madison County, Indiana
Mini 4-H Garden Manual, Delaware County, Indiana
Mini 4-H Garden Manual, Wayne County, Indiana
World Wide Web

December, 1997



Mini 4-H Parent's Page



Welcome to the Mini 4-H Program! Mini 4-H is designed for youth to explore a variety of project areas.

Your child received this project manual when enrolling in Mini 4-H. This manual will provide fun, age-appropriate learning activities throughout their year(s) in Mini 4-H and their interest in this project.

As a Mini 4-H parent, your job will be to guide and encourage your child through the activity. It is highly suggested that you do not complete the activities for them. Instead, help them, guide them, work with them, and let them do all that they possibly can. The 4-H motto is "learn by doing" ... and is a great educational tool which we can provide for youth.

Additionally, the Mini 4-H program is set up to allow your child to exhibit a project at the 4-H Fair. This project is based upon information within this manual.

The 4-H Fair is an exciting time for 4-H members and families. It is a week that allows community youth to showcase their talents, interests and enthusiasm for learning.

Mini 4-H is fun! Your child will certainly enjoy it. You can have fun too, by guiding and helping as your child participates in the program. Encourage and praise your child as he/she has fun learning and sharing with you.



Mini 4-Her's Page



Welcome to Mini 4-H! You are now a member of the 4-H family. You are a special person.

Mini 4-Her's have lots of fun! There are lots of activities for you to explore. You can try new things. You can share it with your friends and family.

Mom, Dad or another adult can help you with your project. Bring your project to the 4-H Fair and lots of people will be able to see what you have done. You also get a ribbon made just for Mini 4-Her's.



Here are some things to know about 4-H.

The 4-H Symbol:

A four-leaf clover with an "H" in each leaf



4-H Colors:

Green and White

The 4-H Motto:

To make the best, better.

The 4-H Pledge:

I pledge my *Head* to clearer thinking,
my *Heart* to greater loyalty,
my *Hands* to larger service, and
my *Health* to better living,
for my club, my community,
my country, and my world.

* What Is Gardening? *

Do you ever wonder where different vegetables or flowers come from? Would you like to see things grow?

Gardening involves planting a seed in soil and watching it grow. It needs water, light, air, food, and room to grow.

▼ Activity 1 -- Seeing Plants Drink

You will need the following things:

- clear cup
- red or blue food coloring
- fresh white carnation or celery stalk with leaves

Here is what you do:

1. Add 8 to 10 drops of red or blue food coloring to water in a clear cup.
2. Trim the carnation or celery stalk so the end will be freshly open and not clogged.
3. Place the celery stalk or white carnation inside the clear cup.
4. Set a timer for 20 minutes.

The carnation or celery will slowly change to the color of the food coloring in the cup. Tomorrow, the changes will be even more colorful!

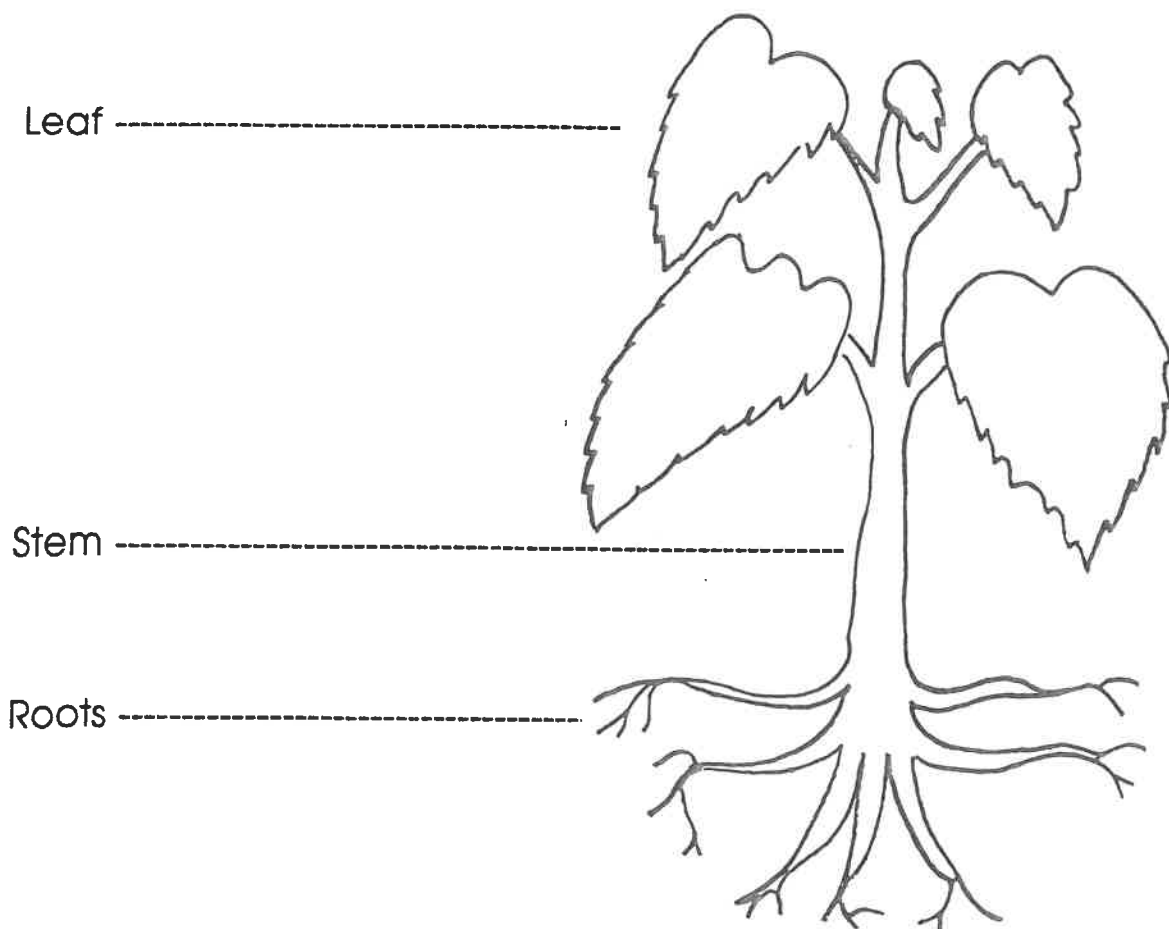
This process shows that the stem of a plant not only holds the plant in an upright position, but it also helps in the transportation of foods and liquids from one part of the plant to another.

▼ Activity 2 -- Parts of a Plant

You will need the following things.

- a live or artificial plant or simply see the illustrations below
- colorful construction paper
- scissors
- glue
- marker

1. Mom, Dad or an adult can show you the different parts of this plant.
2. Use scissors to cut out leaves, stems, roots, etc. from construction paper.
4. Glue pieces on another full sheet of paper to make your own plant.
5. Use your marker to label the appropriate parts of your plant.



▼ Activity 3 -- Garden Search & Color

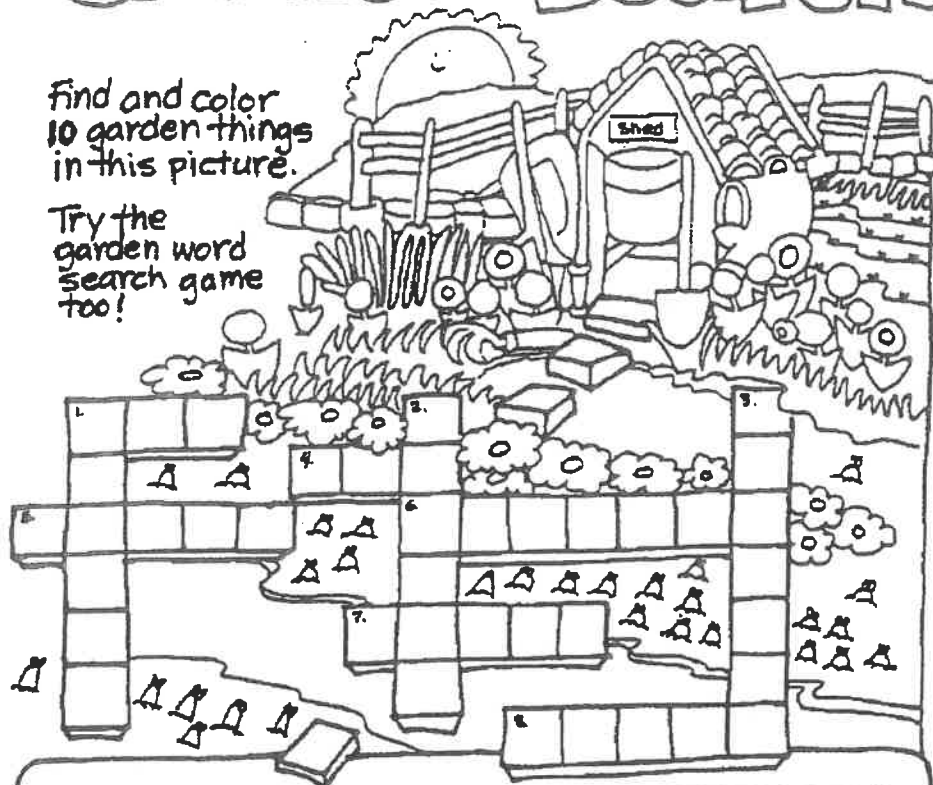
You will need the following things:

- crayons, colored pencils, or markers

Garden Search

Find and color
10 garden things
in this picture.

Try the
garden word
search game
too!



Down

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

Across

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.

Word Bank

hoe
pea
foods
seeds
insects
plants
water
annuals
leaves

▼ Activity 4 -- Indoor Gardening

There are seven requirements for growing plants indoors.

Room to grow
Water
Food

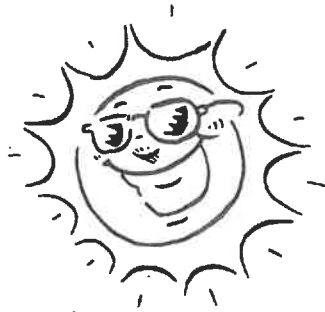
Temperature
Time

Light
Air



You will need the following things:

- seeds
- potting soil
- quart Ziploc sandwich bag, 2-liter bottle or flower pot
- water



Here is what you do.

1. Fill plastic bag 3/4 of the way with good moist soil. Or have an adult cut off the bottom section of a 2-liter bottle and fill with soil.
2. Select seed.
3. Plant seed about 1/16 of an inch deep.
4. Water soil with light spray. Set in sunny window.
5. Watch the plant as it grows.



▼ Activity 5 -- Scrapbook of Vegies

You will need the following things:

- construction paper
- stapler
- scissors
- glue
- marker



Here is what you do.

1. Look through old magazines, etc., and find as many pictures of vegetables as you can.
2. Cut these out with scissors.
3. Glue your vegetable pictures onto different colors of construction paper. Leave enough room below each picture to write the name of each vegetable.
4. Use a marker to write out the names of the vegetables.
5. Write the title of your scrapbook on the first page. Decorate around your title with smaller vegetable pictures or your own drawings of vegetables.
6. Use a stapler to form your scrapbook.

▼ Activity 6 -- A Letter from the Garden

Hi, Kids!

We are glad you are going to plant us in a garden and give us a home. You must take care of us and help us grow into strong, healthy plants. Then we will give you food for you and your family.

If you have a little space, you can grow a little garden. If you have a lot of space, you can grow a big garden. Simple instructions are listed below for each of us!

Our home needs to be very special. We need sunlight, air, and water. Pick up a handful of dirt. Squeeze it. Now, open your hand. If the dirt falls out in pieces, you can plant your garden. If it stays in a mud ball, it is too wet. Try again tomorrow. If it is too dry, wait until it rains.

Plant your rows straight. Your sticks and string will help you do this. If the rows are straight, they will look better and you will get more in your garden. Plant each of us the way it says in this manual. Then watch us. In a week or so you should see us sticking out of the ground.

Remember - if you have any questions with your garden, ask for some help. If you make some mistakes, don't worry, sometimes the best way to learn is from mistakes.

We hope you have fun with your garden. We are looking forward to being on your table in a few months.

Sincerely,

Leafy Lettuce *Squeaky Squash*
Groovy Green Bean!
Risky Red Radish!
Onion *Topsy Turvy Tomato*

Try planting us in your garden. Turn the page to find out how.....

Risky Red Radish

Put my seeds in the garden as soon as you can. I am small, so don't put me very deep in the ground - no more than 1/2 inch. Cover me lightly with soil, not too deep or I'll never peek through. Pick me when I'm as big as a dime and no bigger than a quarter. I should be ready in 3 to 4 weeks.

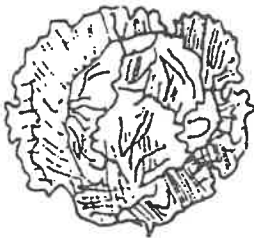


Groovy Green Bean

You can plant my seeds between May 15 and June 1. Not before then because the ground might be too cold for me. Put me in the ground a little deeper than my friend, Risky Red Radish. Snap me off when I get to be about 4 to 5 inches long. I take about 50 to 70 days after I am planted.



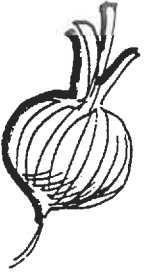
Leafy Lettuce



You can put me in the ground as soon as possible. Don't put me as deep as Risky Red Radish because I will never find my way out of the ground -- I'm too lazy. Just put a little dirt on top of me, only enough so you can't see me anymore. I need lots of sunlight, cool nights and plenty of soil moisture. Cut me when my leaves are crisp and as big as the palm of your hand or bigger. I will be ready in 6 to 7 weeks.

Orville Onion

I take a long time to grow, so put my seeds in the ground as soon as you can. Don't put me very deep in the ground or I will grow V-E-R-Y slowly. These seeds take about 16-20 weeks before they are ready to eat. Pick me just before my root starts to form a ball. My top should be green and fresh. If you want, you can buy onion sets or plants. These should be planted the same way as the seeds. We will be ready to eat in eight or nine weeks!



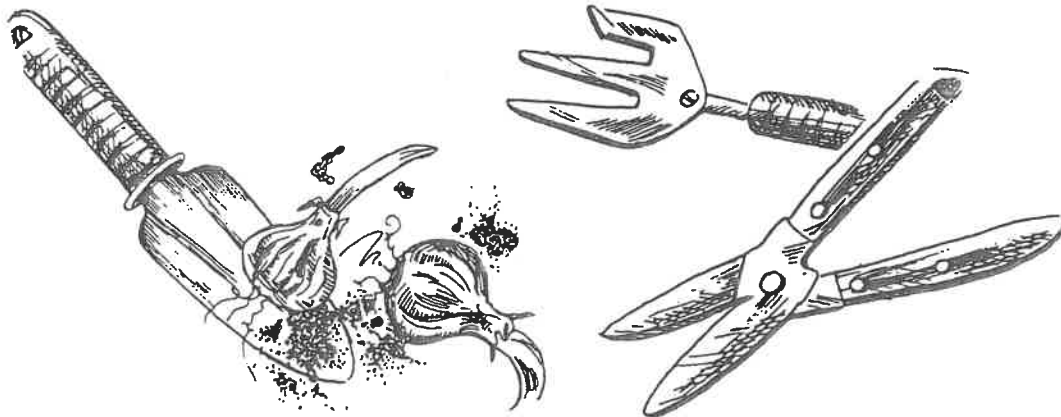
Topsy Turvy Tomato



My plants take a long time to come through the ground. So, after May 15 and before June 1, you may want to go to a greenhouse and get two of my plants. These plants grew from two of my seeds, which were planted in March. They were put in the ground and kept inside because I would have frozen outside. Don't pick me too early. Pick me when I just start to get red in the face. Take me in the house and leave me in a sunny window to get bright red. If those birds and bugs leave me alone, you can leave me in the garden to get bright red. But be careful, insects sneak up when you're not around.

Squeaky Squash

I can be planted anytime between May 15 and June 15. Put me in the ground a little deeper than my friend, Orville Onion. I won't be ready to pick for 50 to 60 days. I am best when my skin is soft and thin. Don't let me get too big!



▼ Activity 7 -- A Garden Fun Song

♪ ♪ (sung to the tune, "Mary Had A Little Lamb") ♪ ♪

A tiny seed is sleeping in the ground,
sleeping in the ground, sleeping in the ground.
A tiny seed is sleeping in the ground, showing nature's way.

The sun comes out and warms the seed,
warms the seed, warms the seed.
The sun comes out and warms the seed, showing nature's way.

The rain comes down and wets the seed,
wets the seed, wets the seed.
The rain comes down and wets the seed, showing nature's way

The roots grow down and spread their toes,
spread their toes, spread their toes.
The roots grow down and spread their toes, showing nature's way.

The leaves are growing inside of the seed,
inside of the seed, inside of the seed.
The leaves are growing inside of the seed, showing nature's way.

The stem humps its back and stands straight and tall,
stands straight and tall, stands straight and tall.
The stem humps its back and stands straight and tall, showing nature's way.

The leaves grow out and wave in the breeze,
wave in the breeze, wave in the breeze.
The leaves grow out and wave in the breeze, showing nature's way.

The blossoms grow and look beautiful,
look beautiful, look beautiful.
The blossoms grow and look beautiful, showing nature's way.

A tiny seed falls back to the ground,
back to the ground, back to the ground.
A tiny seed falls back to the ground, and starts the great replay.





What to Exhibit



Your exhibit will be one plant in a pot (no larger than 10 inches in diameter). You must have taken care of your plant for at least the last two months before judging. A chia pet you have grown can be substituted for the potted plant.

Or

A plate with a maximum of three vegetables.

Or

A scrapbook of pictures of different types of vegetables. Label each vegetable with its name.



How to Exhibit Your Items



For information on how to label your project, when to enter it in the Fair, and where the project needs to go, please contact your Extension Office.

Good Luck at the Fair!

