## ऽKill Lo

Learn about companion gardening

Lífés. Skîl Lo-Healthy Lifestyle Choices

## HORTICULTURE and gardening

Do you ever think about the food you eat? How it grows? What plant parts we eat? Most of us take this for granted. Food is used for more than just food ... but many of the items we use everyday come from food. Some of the new skills that you can learn in the 4-H Consumer Education project are listed on the left. Check your favorites and ther work with your 4-H leaders and parents to make a 4 -H project plan of what you want to do and learn this year.

## COMPANIONG ARDENIVG

Herbs can be grown as seasonings for food. They can also be included in traditional gardening as companions to the vegetables. Herbs, combined with specific vegetables, can protect the vegetables from different types of diseases and bugs. Using the word list below, fill in the missing letters to identify the herb or vegetable that can be used for companion gardening.


## WORDBO:

| RADISHES | CHIVES | NASTURTIUM |
| :--- | :--- | :--- |
| BASIL | SUMMER SAVORY | ROSEMARY |
| HORSERADISH | THYME |  |



## HOW DOEFS YOUR G ARODEN GROW.

Use the step=by-step directions below to plant a garden. on the chart above. The Vegetable Planting Guide on Page 3 will help you answer the questions included below.

1. Plant your rows facing east. Begin planting your non-stake tomatoes by starting at the northeast corner of your garden. Follow the vegetable planting guide on the next page to properly plant five tomato plants. Denote the location of the tomato plants with a "T."
a. If you plant the tomatoes on June l, what is the earliest date that the tomatoes would be ready to eat?
b. What would be the latest date?
2. Sweet corn is next. You have decided to plant only 10 feet of corn. Mark your corn with a "C."
a. If you have one packet of corn seed, how much will you need to use to plant 10 feet of corn?
3. You have decided to plant one row of summer squash. The squash will be planted on the west end of the garden. Mark the correct placement of the squash with a "S."
a. If the squash was ready to pick on August 20, on what date were the seeds planted? The squash had 55 days to grow.
4. Lima beans will also be planted. Use a to denote where the lima beans will be located in the garden.
5. Which plant will be harvested first? Plant a cool crop of 120 carrot plants next. Place a
to denote the location.

VEGETOBLE PLANTIVG GUD真

| VEGETABLE | SEASON | SPACE <br> BETWEEN <br> ROWS <br> (feet) | SPACE <br> BETWEEN <br> PLANTS <br> linches) | YIELD PER 50 FEET | AMOUNT <br> OF SEED OR <br> NUMBER OF <br> PLANTS | DEPTH TO PLANT linches) | DATES TO PLANT | DAYS TO AlLOW FOR FIRST HARVEST |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Beets | Cool | 1 | 3 | 1 bushel | 1 ounce | 1/2 to 1 | 4/1 to 6/25 | 55 to 65 |
| Blackeyed peas | Cool |  |  |  |  |  |  |  |
| Broccoli | Cool | 3 | 18 | 36 heads | 36 plants |  | 4/15 to 6/15 | 40 to 55 |
| Cabbage | Cool | 3 | 18 | 36 heads | 36 plants |  | 4/15 to 6/15 | 55 |
| Cantaloupe | Warm | 4 | 48 | 25 melons | 1 packet | 1 | 5/15 to 6/1 | 85 to 90 |
| Carrots | Cool | 1 | 2 | 1 bushel | 1/2 ounce | 1/2 | 4/10 to 6/20 | 70 to 75 |
| Cauliflower | Cool | 3 | 18 | 36 heads | 36 plants |  | 4/15 to 6/25 | 50 to 60 |
| Chinese cabbage | Cool |  |  |  |  |  |  |  |
| Collards | Cool |  |  |  |  |  |  |  |
| Cucumber (for slicing) | Warm | 4 | 18 | 3/4 bushel | 1 packet | 1 | 5/15 to 7/1 | 55 to 70 |
| Cucumber (for pickling) | Warm | 4 | 18 | 3/4 bushel | 1 packet | 1 | 5/15 to 7/1 | 55 to 70 |
| Eggplant | Warm | 2 | 24 | 60 fruit | 24 plants |  | 5/15 to 6/15 | 55 to 70 |
| Potato (pieces) | Cool | 3 | 10 | 1 bushel | 60 pieces | 4 | 4/20 to 6/1 | 90 to 130 |
| Sweet potato (plants) | Cool | 3 | 12 | 1 bushel | 50 plants |  | 5/20 to 6/10 | 130 to 140 |
| Leaf lettuce | Cool | 1 | 4 | 150 plants | 2 packets | 1/2 | 3/20 to 6/15 | 40 to 50 |
| Lima beans | Warm | 2 | 6 | 1 bushel | 1/2 pound | 1-2 | 5/15 to 6/15 | 65 to 75 |
| Okra | Warm |  |  |  |  |  |  |  |
| Onion (sets) | Cool | 1 | 2 | 1 bushel | 1 pound sets | 1-4 | 4/1 to 5/1 | 90 to 120 |
| Onion (slips) | Cool | 1 | 2 | 1 bushel | 300 slips | 1-4 | 4/1 to 5/1 | 60 |
| Peas | Warm | 1 | 1 | 1 bushel | 1/2 pound | 2 | 3/20 to 6/15 | 60 to 75 |
| Peppers | Warm | 2 | 18 | 2 bushels | 35 plants |  | 5/15 to 7/1 | 55 to 70 |
| Radishes | Cool | 1 | 1 | 500 roots | 1/2 ounce | 1/2 | 3/20 to 6/15 | 25 to 30 |
| Snap beans (bush) | Warm | 2 | 2 | 1 bushel | 1/2 pound | 1-2 | 5/10 to 7/20 | 55 to 60 |
| Spinach | Cool | 1 | 3 | 25 pounds | 1 ounce | 1-2 | 3/20 to 6/15 | 40 to 45 |
| Summer squash | Warm | 4 | 48 | 100 squash | 1 packet | 1/2 | 5/15 to 6/15 | 50 to 60 |
| Winter squash, pumpkins | Warm | 6 | 72 | $25-50$ squash | 1 packet | 1 | 5/15 to 6/15 | 85 to 110 |
| Sweet corn | Warm | 3 | 12 | 50 ears | 1 packet | 1-2 | 5/10 to 7/10 | 65 to 85 |
| Tomato <br> (staked) <br> (Non-staked) | Warm | 4 <br> 4 | $\begin{aligned} & 24 \\ & 36 \end{aligned}$ | 100 pounds 100 pounds | $\begin{aligned} & 25 \text { plants } \\ & 17 \text { plants } \end{aligned}$ |  | $\begin{aligned} & 5 / 15 \text { to } 6 / 20 \\ & 5 / 15 \text { to } 6 / 20 \end{aligned}$ | $\begin{aligned} & 40 \text { to } 70 \\ & 40 \text { to } 70 \end{aligned}$ |
| Turnips | Cool | 1 | 4 | 1 bushel | 1 packet | 1/2 | 4/1 to 6/15 | 60 to 90 |
| Watermelons | Warm | 6 | 48 | 15 melons | 1 packet | 1 | 5/15 to 5/25 | 75 to 90 |

## RoEFLECTOON

As an advanced horticulture and gardening project member, you have gained many useful skills. These are skills you can use for a lifetime. Reflect on the things you have learned. Think about how having this knowledge makes you feel. Using the letters below, highlight your new skill set and feelings. An example has been provided.
What l've Learned ...

## LE APoNIVG TO LEND

As a 4-H project leader, you should be able to share your skills, knowledge and experiences with younger $4-H$ members. The following group activity can be used to assist you in planning your next project group meeting and in teaching younger members horticulture and gardening information.

## GARDEN GROUPINGS

## Materials needed:

- Copies of the fruits and vegetables on the following pages You will need one set of cards for each person or group ltwo to four people per groupl; Laminating the cards is optional.
- Ziplock ${ }^{\text {TM }}$ bags


## Directions:

- Cut out the fruit and vegetable cards following the dotted lines.
- Place the cards in a Ziplock ${ }^{T M}$ bag.
- Pass the Ziplock ${ }^{\top M}$ bags out -- one to each person or group.
- Place the cards on a table face up.
- Group the fruits and vegetables into groups of threes based on commonalities i.e., color, plant parts we eat, used for decorations, can be eaten in a salad, used to make salsa, names start with the same letter of the of the alphabet, etc
- Make a list of the groups and the fruits and vegetables that make up the list.
- The objective is to create as many groups as possible.
- The fruits and vegetables may be used more than once.


## CAREEER SEMPCH

1. Find a person in your community or family member who uses horticulture/gardening in his or her profession. Set up an interview. Create a list of questions you would like to ask. A few examples are
What do you like best about your job?
How does horticulture/gardening relate?
What kind of education/training do you have?

What other questions would you like to ask? Think about it and write them in the space below.
2. How will you record the interview? Will you write or tape the responses? Will you videotape it?
3. How are you going to share the interview with others? Will you write a report? Create a news article? Design a video, Power Point ${ }^{\text {TM }}$ or DVD? Whatever the format, make sure that it is okay with the interviewee!
4. What did you learn with this project? List below three new skills you developed:

## SERVICE HEENS

Share your knowledge with others! Give a project demonstration about one aspect of horticulture/gardening.

Assist an assisted living home in developing a flower, herb or vegetable garden.

Grow an herb container garden. Decorate the pots and give them away as gifts.

## REESOUCEES

School and public libraries
Horticulture and Gardening manual
4-H project leader/groups
The following Website was used to
create this activity sheet. To learn more horticulture and gardening skills visit:
www.n4hccs.org
www.utextension.utk.edu/4h/projects/
Don't forget! For more ideas and info, contact
your local 4-H office.

## OTHER

## 4-H Demonstration

4-H Skill-a-thon

Combine efforts with a Nutrition, Health and Fitness project group leader to create and design a "Good Foods" guide. Use the guide to highlight various foods, why they are good for you and how to grow them.



