

**Here's your
FREE
lesson!**



We hope you enjoy it!

Get full access to all of our lessons, join our membership at

www.onthemarkcurriculum.com

We give you the lessons, so you can do what you love! TEACH!

Join Now!



3rd Grade Life Science Curriculum Map

Growth & Change in Plants

The lessons fall under seven topics that relate to aspects of life systems: Growth and Change in Plants.

In each section you will find teacher notes designed to provide you guidance with the learning intention, the success criteria, materials needed, a lesson outline, as well as provide some insight on what results to expect when the experiments are conducted.

Suggestions for differentiation are also included so that all students can be successful in the learning environment.

Seven Topics Include:

Lesson One: Plants

Students will learn about what a plant is, and about their physical characteristics.

Lesson Two: Plant Parts

Students will learn about how the main parts of a plant work to help it survive.

Lesson Three: What Do Plants Need?

Students will learn about the basic needs of plants in order to grow healthy.

Lesson Four: How Plants Grow

Students will learn about seed germination, how plants grow to maturity, and special adaptations that help plants to survive.

Lesson Five: Importance of Plants

Students will learn about the importance of plants to people and other living things, and about the harmful effects plants face and how to minimize these effects.

Lesson Six: Aboriginal People and Plants

Students will learn about the importance of some plants and their usage by First Nation's people.

Lesson Seven: Growing Plants for Food

Students will learn about the ways in which plants are grown for food, the advantages and disadvantages of organically grown and produced food, and harvesting methods of plants.

GROWING PLANTS FOR FOOD

LEARNING INTENTION:

Students will learn about the ways in which plants are grown for food, the advantages and disadvantages of organically grown and produced food, and harvesting methods of plants.

SUCCESS CRITERIA:

- identify places and ways in which plants are grown for food
- recognize the advantages of locally grown and organically produced food
- recognize the disadvantages of locally grown and organically produced food
- describe the growth process of an edible plant from seed to maturity using illustrations and written descriptions
- explain how and when an edible plant is harvested
- identify jobs that are related to the plant growing industry

MATERIALS NEEDED:

- a copy of “Growing Our Food” worksheet 1 for each student
- a copy of “The Good and the Bad” worksheet 2 for each student
- a copy of “From Seed to Harvest” worksheet 3 and 4 for each student
- access to the internet or local library
- pencils, pencil crayons, clipboards, chart paper, markers

PROCEDURE:

***This lesson can be done as one long lesson, or done in three or four shorter lessons.**

1. Give students worksheet 1. They will create a mind map to indicate places/ ways in which plants are grown for food. **Sample responses:** on farms, in gardens, in greenhouses, in orchards.

2. Engage students in a discussion about the meaning of ‘locally grown food’ and organically produced food’ to ensure their understanding of these concepts. Divide students into pairs and give them worksheet 2. They will engage in a ‘think-pair-share’ activity to discuss and record the advantages and disadvantages of growing food locally and organically produced food. Instruct them to record their thoughts in point form. A follow up option is to come back together as a large group to share, and record their responses on chart paper. This will promote some rich discussion. Pose this question: Have you considered the environmental benefits, if so what are they?
3. Give students worksheets 3 and 4. They will choose an edible plant, describe its growth process from seed to maturity, then describe its harvesting process. Some students may need to access the internet or local library.
4. As a large group, brainstorm some jobs that are related to the plant growing industry.

DIFFERENTIATION:

Slower learners may benefit by working as a small group with teacher support to complete worksheet 2. This would allow for probing of ideas and prompting of responses.

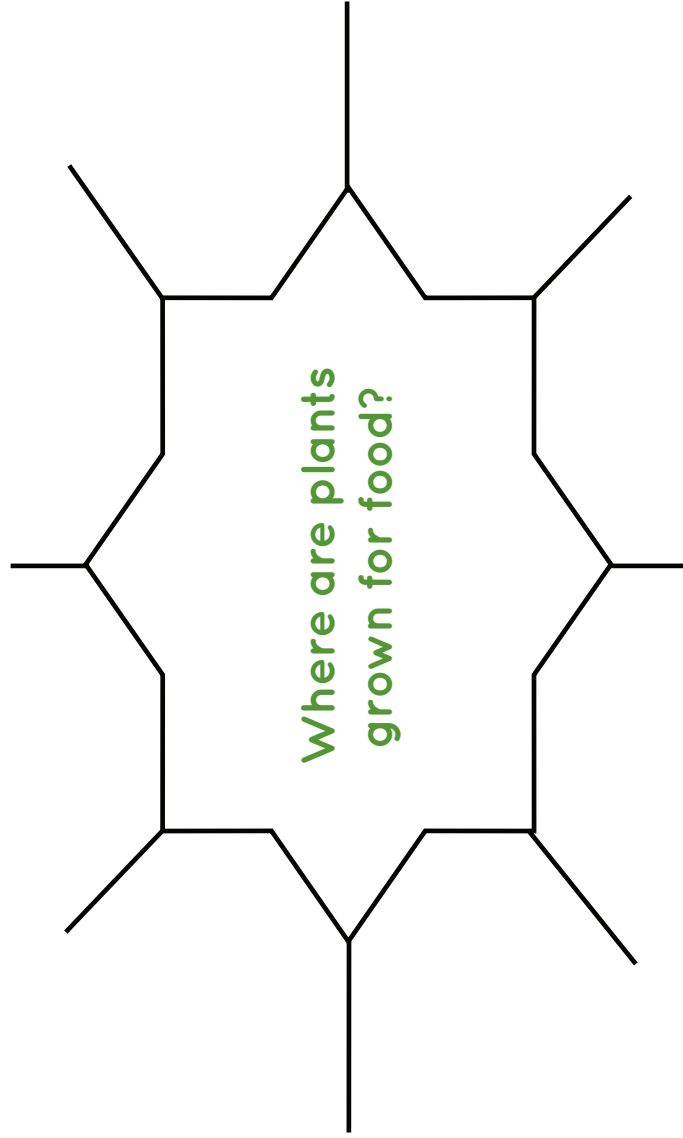
For enrichment, faster learners could research a job in the planting or farming industry. Questions to consider:

- What responsibilities does a person in this role have?
- What education or special knowledge is required to do this job?
- What type of equipment do they use? Describe how this equipment works.
- Would you like to do this job? Why or why not?



Growing Our Food

Construct a mind map to show the different places or ways in which plants are grown for food.



The Good and the Bad

The Advantages

With a partner, discuss the advantages and disadvantages of locally grown food and organically produced food. Record your thinking.



The Disadvantages



From Seed to Harvest

Choose an edible plant. Follow it from seed planting through its growing process, then to the final stage of harvesting.

Plant Name: _____

1. Does it grow from a seed or bulb?

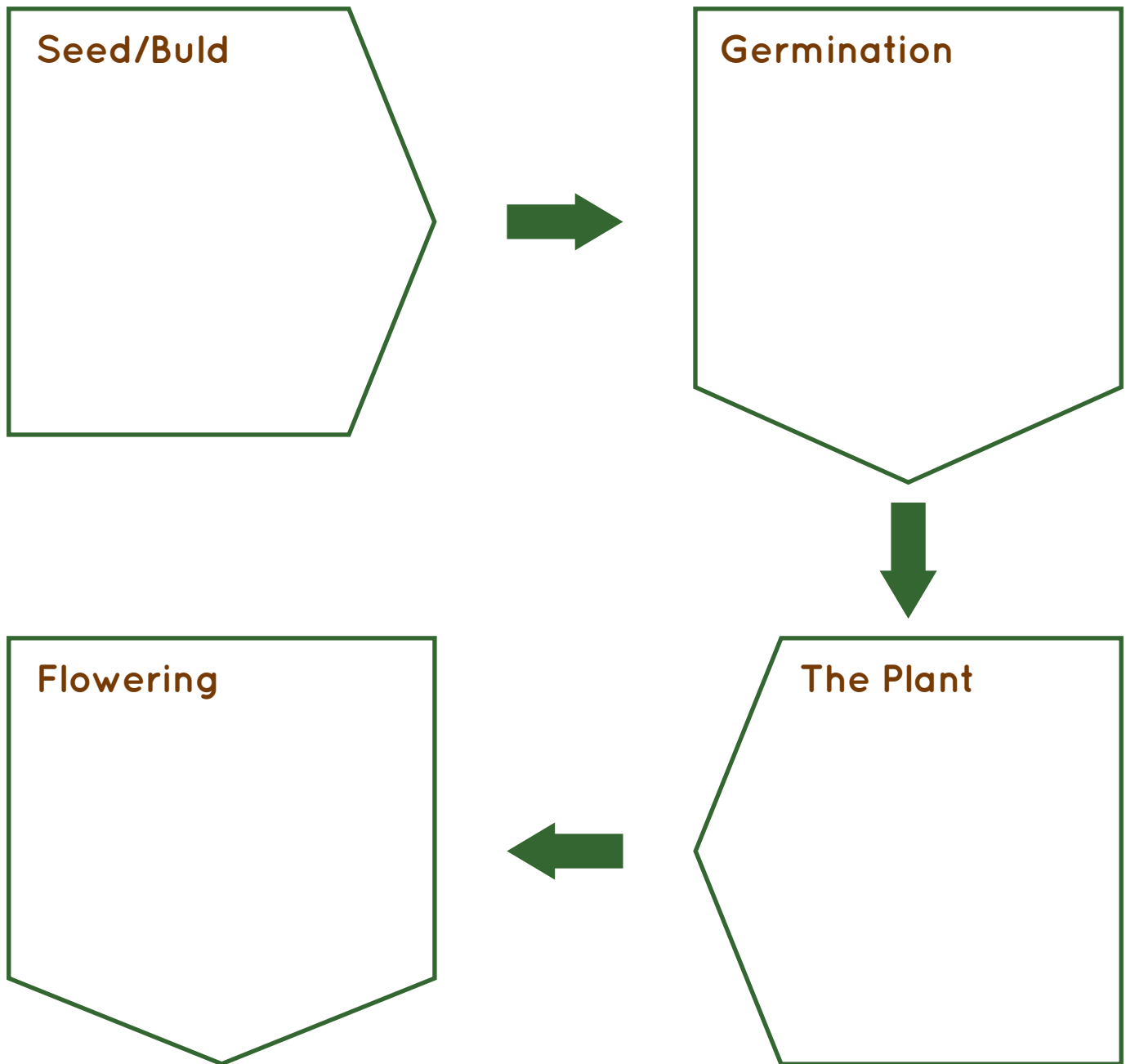
2. What time of year is it planted?

3. Where can it be grown?

4. How long is its germination process?

5. How long does it take for it to mature and become ready for harvesting?

Use the chart below to illustrate your edible plant's stages of growth.



How is it harvested? When?

