

Apple: Seed to Tree



LEVEL: Grades K-3

SUBJECTS: Language Arts, Science, Social Studies

AZ ACADEMIC STANDARDS: R-F4, W-F4, SC00-S4C1, SC00-S4C3, SC01-S4C1, SC01-S4C2, SC01-S4C3, SC02-S4C1, SC02-S4C2, SC03-S4C1, SC03-S4C2, SC03-S4C3, SC03-S4C4, ISS-F3

MATERIALS

Literacy books, seeds, paper towels, wax coated paper plates, 4 spray bottles, log sheets

VOCABULARY

germination, root, trunk, branches, bark, leaf, and pollination

RELATED LESSONS

Apple: Kinds to Products
Apple: Bare to Pick
A is For Apple
What to do with Malusdomestica, Cultivated Apples?

SUPPORTING INFORMATION

Believe it or not some of the trees that Johnny Appleseed planted over 150 years ago are still alive and producing apples. John Chapman was born in Massachusetts on September 26, 1774. He later moved to Pennsylvania where he cared for a 120-acre apple orchard. After gathering thousands of apple seeds, from the cider presses, John Chapman traveled west to the Ohio River Valley, planting apple seeds along the way. He also sold and gave away thousands of apple seedlings to pioneers who took them further west to

plant. John Chapman was a kind and gentle man who carried everything he owned on his head or back. As he traveled he made friends with many animals who kept him company on his many travels. With proper soil, weather, and water conditions apple trees grew up across the west.

GETTING STARTED

Get several library books about "Johnny Appleseed", and growing seeds. (See resources for some suggestions)
Bring in seeds, paper towels, spray bottles, log sheets, transparency showing the parts of the apple tree, matching worksheet, labeled map of the United States, and a United States map worksheet.

PROCEDURES

1. Read several Johnny Appleseed library books.
2. Chart similarities and differences among the library books.
3. List animals that joined John Chapman on his travels.
4. Follow, on a map, Johnny Appleseed's travels across the west to plant apple seeds.
5. Hand out a paper towel to each student and have them spray it down with water.
6. Pass out seeds and place them between the wet paper towels on a wax coated paper plate.
7. Explore how germination occurs with proper conditions, use hand out.

BRIEF DESCRIPTION

Students will discover how John Chapman got his nickname, became a legendary hero, animals that became his friend, and how his apple trees grew.

OBJECTIVES

Students will:
-Compare similarities and differences of several "Johnny Appleseed" books.
-Grow seeds and log observations.
-Label parts of an apple tree.
-Map Johnny Appleseed's travels.

ESTIMATED TEACHING TIME

30-45 minutes plus a few minutes a day for two weeks to observe and log seed growth.

PROCEDURES (cont'd)

8. Write first day observation on log sheet, to be continued for 2 weeks. Display logs when completed.
9. Pass out apple tree chart and go over parts.
10. Discuss that to grow apples the apple blossoms have to be pollinated.

EVALUATION OPTIONS

1. Students draw and label an apple tree.
2. Write or illustrate the different animal friends Johnny Appleseed made on his travels.
3. On the United States map show Johnny Appleseed's travels.
4. Write or draw a response to "Johnny Appleseed is a legendary hero because....".

EXTENSIONS AND VARIATIONS

- Cooking: Make apple sauce, apple butter, apple muffins, or caramel apples.
- Field trips: Visit a local apple orchard.
- Art: Make bark and leaf rubbings, compare textures, put apple prints on paper to use as a wrapping paper or to make a bulletin board.
- Speaker: Invite a farmer into the classroom to discuss apple seed to apple trees.

RESOURCES

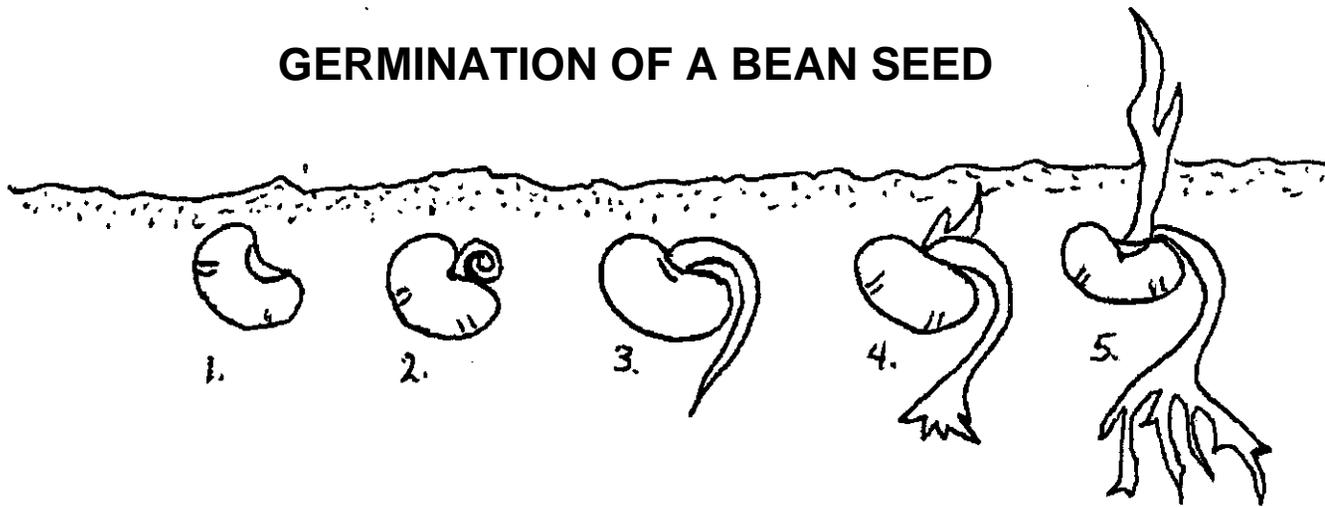
"The Story of Johnny Appleseed", by Alike
"Johnny Appleseed", by William Evans
"Johnny Appleseed", by Steven Kellogg
"Johnny Appleseed", video by Disney
Teacher Created Materials, Inc. 1990 #266 Thematic Unit-Apples

<p>CURRICULUM DESIGN Patsy Workman K-3 Teacher Childhelp U.S.A.</p>
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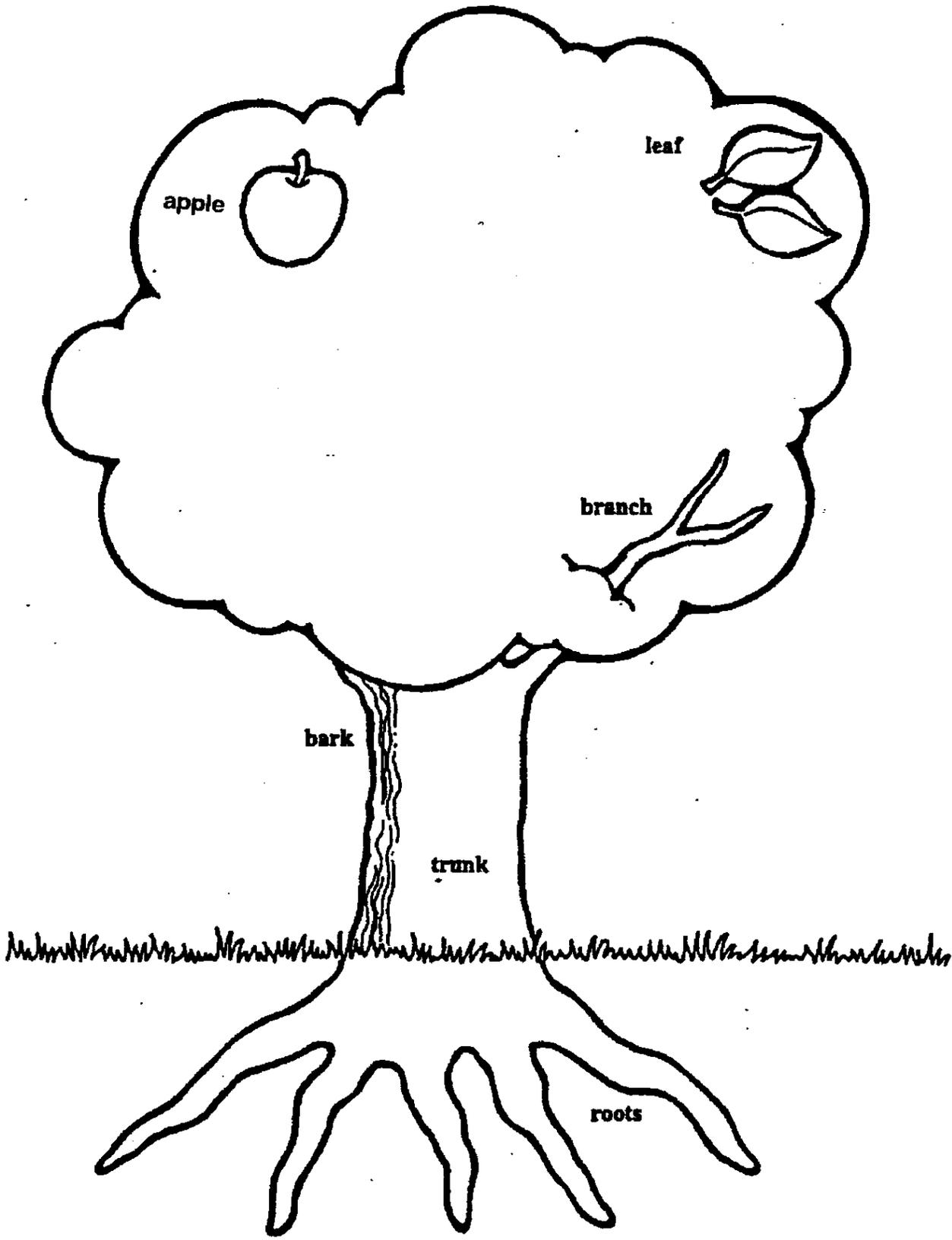
EDUCATORS' NOTES

This Arizona Grown Specialty Crop Lesson Plan was paid for by a grant from the Arizona Department of Agriculture's Office of Marketing and Outreach.

GERMINATION OF A BEAN SEED



APPLE TREE



[Name:

I Date:

APPLE SEED LOG

Watch your apple seed grow. Write what you see. Then draw a picture.

Day	Date	Day	Date
What I saw:		What I saw:	
A picture:		A picture:	
Day	Date	Day	Date
What I saw:		What I saw:	
A picture:		A picture:	

U.S. MAP

90° Longitudinal

