

## TEACHER MATERIALS - Apples

<b>CONCEPTS:</b>	Mathematics	- number concepts
		- renaming
		- story problems
		- reading/listening for content
		- sequencing
	Physical Science	- 2.3
	Life Science	- 1.3, 1.4, 2.5
	Social Studies	- change

**OBJECTIVES:** The students will understand that young apple trees produce fewer apples than mature trees.

**BACKGROUND:** Once a tree is planted, it takes several years before it will produce fruit. Some trees will begin to fruit in the third year although they will only produce one or two apples. It takes eight years (sometimes longer) before the new trees produce enough fruit to cover the costs of maintenance. Up to that point the tree is a financial liability.



Once a tree is ten years old, its production depends upon weather, pollination, nutrition, and health of the tree as well as pruning techniques. Farmers must pay attention to these factors and bear the financial burden because fruit trees do have a finite life span. The quality and quantity of the fruit that they will produce begins to drop off after a number of years.

- ACTIVITIES:**
1. Have the students 'apple' the trees on "Apple Trees" according to directions, either by reading the questions to them or having them read the lessons.
  2. Have the students cut out the pictures on the worksheet

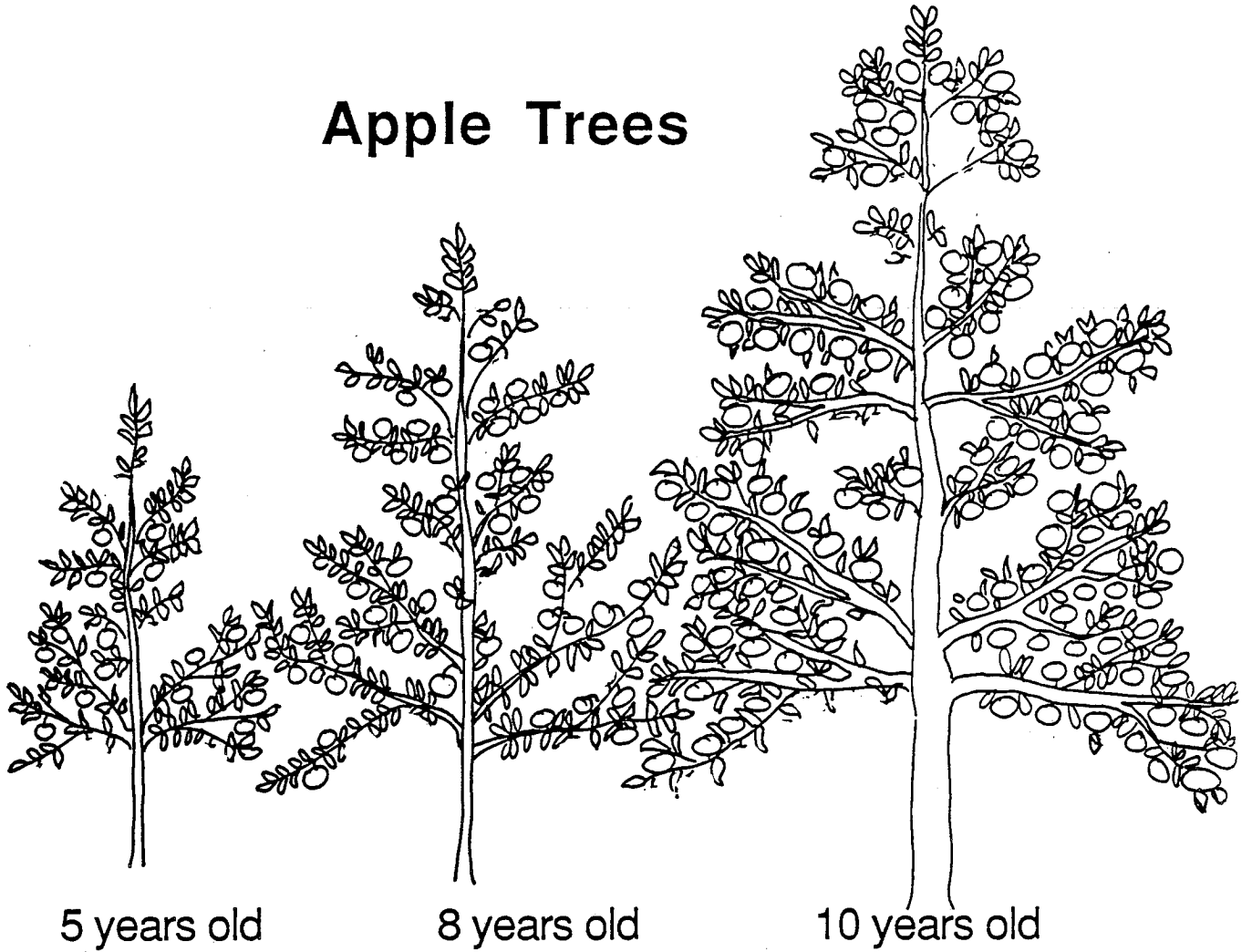
2. Have the students cut out the pictures on the worksheet "Apples" and put them into sequential order.

**Additional Information:** The AIMS Education Foundation has some excellent lessons on apples in the "Fall into Math and Science" materials.

**Contributed by piloting teacher Mary Beth Wilson.**

Name- \_\_\_\_\_

## Apple Trees



1. On the smallest tree draw 3 more red apples.
2. On the 8 year old tree draw 6 more red apples.
3. On the largest tree draw 12 more red apples.
4. At what age do apple trees have the most apples?

Name- \_\_\_\_\_

Cut these pictures out and put them in order.

# Apples

1. seeds

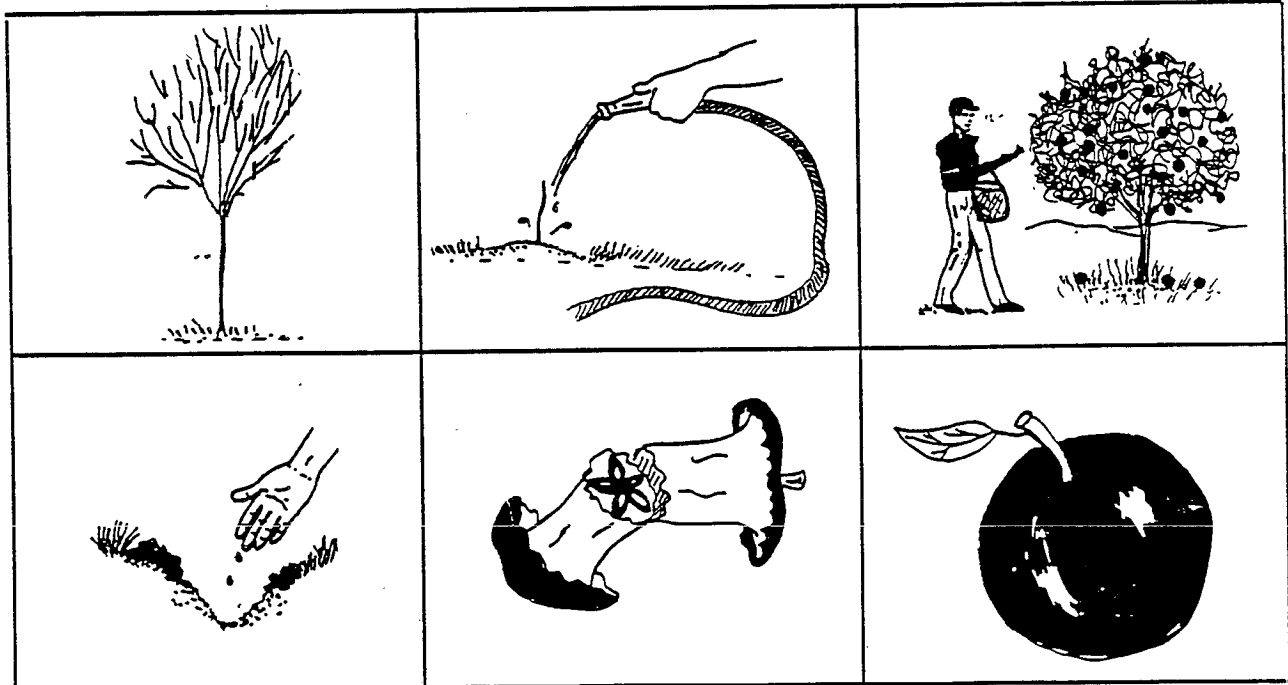
2. planting

3. watering

4. young tree

5. picking

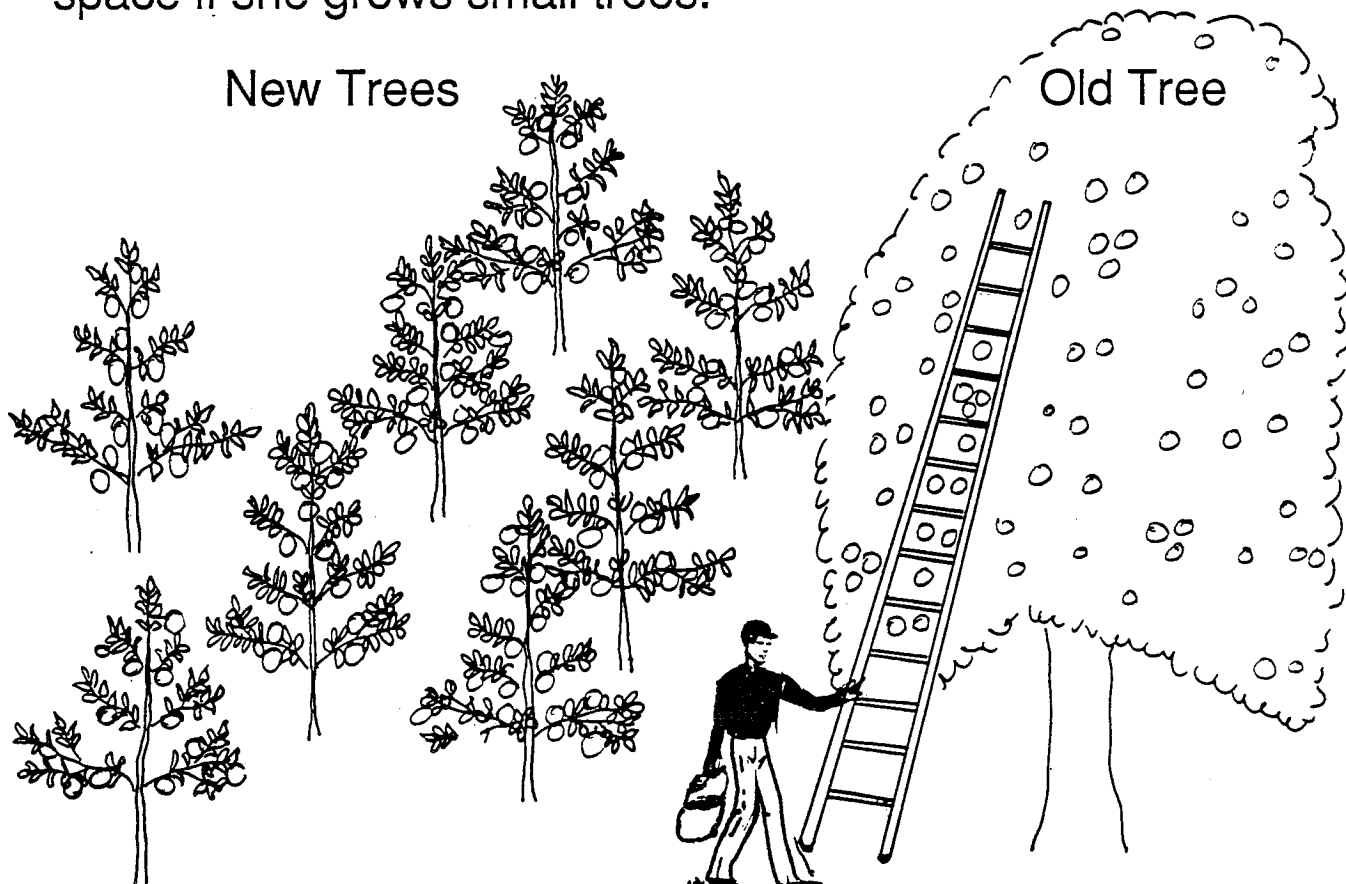
6. apple



Name \_\_\_\_\_

## New or Old Apple Trees

New types of apple trees are small. Each tree has fewer apples but the farmer can plant more trees in the same space. So, the farmer can get more apples from the same space if she grows small trees.



How many apples are there on the new trees?

\_\_\_\_\_

How many apples are there on the old tree?

\_\_\_\_\_

What else is good about having small trees?  
(Look at the picture.)