MARCH 18, 1920

No Worry-No Trouble-No Waste

When pressed for time—when you must wait for your oven-when you cannot get the right

temperature—these are the causes of your troubles on bake days when you use the wrong kind of baking powder.

To have enjoyable results of a day's baking, to have no worry or wasted cakes and pastry despite adverse contions, you must first be careful about the baking powder you select.

EGG-O Baking Powder

It does its work absolutely. Its double action makes it a never failing leavener, notwithstanding having to wait on your

Always follow the directions—one level teaspoonful to one level cup of well sifted flour. By doing so, you use a quarter to a half less EGG-O, and get better results.

The Egg-O Baking Powder Co., Limited Hamilton, Canada

. The airtight package preserves their oven freshness, crispness and purity.



Jersey Cream Sodas

Factory at LONDON, Canada.

Branches at Montreal, Ottawa, Hamilton, Kingston, Winnipeg, Calgary, Port Arthur, St. John, N.B.



A Study of Twigs and Winter Buds of the Apple Tree.

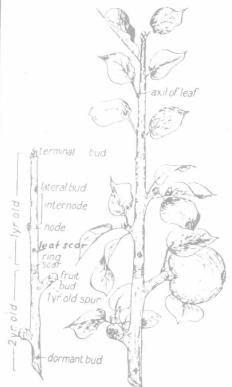
Aim.—To interest pupils in the twigs and buds of fruit trees; to show then Aim.—To interest pupils in the twigs and buds of fruit trees; to show then how to become intelligent regarding their formation and function.

Materials.—Apple twigs showing at least two years growth—one or two twigs.

What to Teach

1. Introduction

The parts of an apple tree are the roots, the trunk, the branches, the twigs, and



Spring & Next August

the spurs of the two year-old part. These blunt spurs grow very little each year, gether, while on the main shoot they are much farther apart.

Leaf scars are found at the base of each bud. Hence in every axil a bud was formed. The leaf starts first and as the tect the young leaves from the rain beating upon them and to prevent them from drying out. In the spring the growing leaves

How to Teach it.

Name our commonest orchard tree.
What are the parts of the apple tree!
On which part do the leaves and blossoms come in the spring? Let us learn what we can about these twigs.

"Supply each pupil with a suitable trig for investigation

Look at your twig. What color is the bark? Describe the color on the different parts. Where it is the smoothes? How old do you think your twig is How can you tell? (Make sure that all pupils find the ring scar.) What do you find on the two-year-old part that is not considered. find on the two-year-old part that is not present on the one-year-old part? Each of these is called a spur or shoot. What caps each of these spurs? These are called terminal buds. Find the terminal bud at the end of last year's grown.
Look for other buds. These are called lateral buds. The part of a two where a lateral bud has formed is called the node, and the part from one but to the other, the internode. Which of the two parts is the thicker? Are there any lateral buds on the growth of two years ago? They are called dormant buds. These did not grow last year while the others grew and formed a spur and a terminal bud. How many dormant buds on your twig? Compare the size of the lateral buds with that of the terminal Examine a three-year-old part of a twig and find how much the blunt spun grew each year. Why are the ring soar

close together on the spurs and farther

apart on the main shoot.

Find a scar at the base of each bud. What caused this scar? (By an illustrative sketch show the pupils what the and of a leaf is.) Where did these buds torm? When? What did these twigs look like last summer? What will come out on the twigs during the warm spring weather Examine closely one of the lateral buds. How is it covered? Remove the scales and then what do you find? This lightcolored woolly interior is the beginning of the new leaves waiting for the spring Of what use are the bud scales? What will happen to them when the young leaves grow bigger? What causes ring

Investigate the interior of one of the irgest terminal buds. What do you find Explain to the class what such a mixed bud contains.) Do all these blossoms later develop into fruit? Watch for this

In what position do these twigs mainly grow? Which is the strongest? Where do you find the weakest shoot? Where are most of the dormant buds found? Can you account for these differences? There were too many buds for the space, and in the struggle for existence those that had the best start and most sunlight and room made the largest growth. Compare the effect of sunlight on house plants growing in a window.)

How does the arrangement of the twigs on the main shoot compare with that of the lateral or axillary buds? Why should they be the same? Why does a tree not look more regular in its arrangement of

Pear, cherry or plum trees. Stand them in water in the class room where pupils may watch the buds swelling from week of their likenesses and differences, based on their observations. Have pupils watch an apple tree in the spring, and have them record briefly all the changes they observe until the leaves are out and the

blossoms have fallen. Find the number of apples that are fermed on the average fruit spur.