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The most expensive foodstuffs are used in baking, so always be careful to use the right kind of Baking Powder, otherwise great waste may

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Its double action absolutely assures perfect baking at all times.

Egg- also helps save fuel because it does not require so hot an oven as is required by other powders.

Always follow the directions-one level teaspoonful to one level cup of well sifted flour. You use from a quarter to a half less powder when you use Egg-O.

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

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# Our School Department.

#### How to make a Garden

A LESSON PLAN.

Aim:-To interest the children in

gardening.

Materials:—A vacant lot, or a part of the school-grounds, or a plot at home; rakes, hoes, measuring stick, line, seeds,

Method:—1. Of what use are seeds? Why are we interested in looking through seed catalogues in spring? Why do we want seeds? What can we do with them? What does nearly every person plan to do out-of-doors in spring? How can a garden be prepared, planted, and cared

2. Discuss the making of the garden. If possible, actually do the work in a garden lot, or have the pupils do the work

First: Preparation of Soil,—What should be done to the lot first? Should it be plowed in autumn or in spring? Of what use is the plowing? When should manure be applied? Why should the garden receive plenty of manure? Discuss the digging of the plot with a digging-

Second: Planning of the garden.-Measure and make a plan of the garden. Divide it into lots or plots with paths between. Make the plots longer than wide. Why is it better not to have the plots too wide? In what direction should the plots run? Why is it better to have them run north and south? Mark the

rows in the plots.

Third: What to Plant.—Decide as to what to plant, vegetables or flowers, or both, and what kind of each. Keep in mind what plants would look well side by side, and whether one kind would shade another if close. Consider also the use of each vegetable.

Fourth: How to Plant.—Discuss the planting of the seeds. Should they be planted in rows or hills, or scattered? How deep should they be in the ground? Should the soil be pressed down on them after planting? How could it be pressed?

Fifth: Care of the Garden.—Discuss the care of the garden after planting. When should it be watered? How often? How much water? How can weeds be kept down? How much care should the garden receive during the vacation? 3. Compare the making of a garden in good well-prepared soil with the making of one where there is sod only. Which should give a better garden? Why?

4. In planning a garden what are the chief points to be kept in mind? What work is required in a garden: (1) in the making and (2) in the care? Why should every child have a garden?

At school or at home make a garden and care for it. Notice other gardens and make comparisons. 6. Draw a plan of your garden showing

the rows or beds, and how it is planted. The above lesson plan is from Book 2 of Nature-Study Lessons, by Dr. D. W. Hamilton, Macdonald College.

### A Springtime Game

"All work and no play makes Jack a

Whatever you do, do it well even if it is playing. Play enthusiastically when you play, and work hard when you work.

HEADS AND TAILS,

Divide into two teams and line up the teams facing each other in two lines with about three feet between the lines. The teams take up their positions in the middle of the playing space each with their backs turned to their own den and facing the opponents. One side is called the "heads" and the other "tails." A leader is chosen who tosses up a coin—when it falls "heads" he calls out "heads," if it falls "tails," he calls out "tails." The side whose name is called the "tails." side whose name is called turns and runs for its den, which may be a wall, fence or a line drawn about thirty feet from the centre of the playing space. The other side meantime tries to tag as many of the team called as possible before they get to their den. Everyone so tagged has to pass over to the other team. The teams then line up as before and the coin is tossed again and again until only one player is left on one side or the other.

#### Some Illusions Regarding Buds and Twigs

BY G. W. HOFFERD, M.A.

There seems to be a general opinion among pupils that the bud scales and woolly coverings, such as found inside the scales of the horse-chestnut, are to keep the delicate bud warm. A little reflection on winter conditions would son convince one of how entirely inadequate bud scales, as a covering, are to keep out the cold of winter weather. How would you like to stay out all winter expose to "zero weather" with such a scant protection as scales afford? The best they could do is perhaps to protect the they could do is perhaps to protect the bud a little from too rapid a rise or latin temperature. The real function is a protect the young delicate shoot from losing too much water, and from mechanical injury. The air of winter is much dryer than that of spring and summer and so woody plants must protect them selves against this cold, dry air of winter which practically places the plant must which practically places the plant under desert conditions. At the same time the cold soil almost entirely retards not absorption, and also water-raising forces are at a minimum. Thus, bud scales protect against evaporation during period when the plant cannot afford lose moisture from its dormant growing shoots. Nature prevents the dry out of twigs by bud scales and the excretion of resin between the stales



A Beauty Spot.

Another general belief is that be 'winter killing' of trees and shints is due to freezing. Cold in freezing, however, is only indirectly the cause death. "The real cause is the abstraction of water from the cell by the ice crystal forming in the intercellar spaces." The ice-crystals, of course, are formed in the water content of the cell istel extracted from the cell, and conseque its moisture is reduced below the danger point for that cell, and death cusue Investigation has shown that, on freezing ice never forms within a cell, but rather the space between cells, and that freein does not rupture the tissue or cell wall as many suppose. Hence freezing is, in really a drying process; and dryness is the recause of death in winter-killing and not cold. Have you ever noticed how dry twigs are during the winter months compared with that of other seasons?

Another error is common regarding the elongation of woody plants. The grow in height only by the growth of no rections of the stem which start out each growing season from the terminant and lateral winter buds. Consequently branches once formed on a tree remain the same distance apart and the same distance from the ground year after year But from whence come the trees with those long limbless trunks? This is illusion in forest trees due to the dynamics of the land to the dynamics. away of the lower branches, and not to any elongation of the length of any season's growth. The growth goes on it diameter, but not in length. Compare a tree in the forest with one of the same species in the coop feld where it is species in the open field where it is bathed in a flood of light. The different is due to the presence of abundant sulight in the open field, and the shadd condition which prevails in the forest.