

Science

Natal Tu. (Boys). (2 yr course)

- Aims - 1) To introduce the students to what may be termed Scientific method, the collection & correlation of facts & where possible the deduction of general laws therefrom. The greater part of the work should be done by experimentation carried out by the students themselves.
- 2 - Enable them to teach.
- 3) To give the students a broader & more rational outlook, and to enable them more effectively to counteract traditional superstition.

Chemical - Physical phenomena - physical & chemical changes. The atmosphere, etc.

Living - Non-Living substances. Plants - Spirogyra, up to Flowering plants. Insects, Worms, Fishes, Birds, mammals, etc. Insects etc students are likely to meet. The soil. Practical application - of properties of soils, retention of water, burning of grass, living organisms in the soil, means of increasing fertility.

Weather records.

OFS Teachers

Men - women take elementary general Science & Nature Study in 3rd yr certificate.

3rd yr cert
measurement - length, weight, measure. Cubes, prisms etc.

States of matter

Heat & Temperature. Winds. Ocean currents.

The Atmosphere. Combustion, Rusting

Water.

Physical & chemical changes.

Various elements.

Principles of 5 of :-

water pump, pneumatic tyre, cycle inflator, bell, electric battery & bell, oil lamp, acetylene gas lamp, steam engine, petrol engine.

Compass.

Weather records.

Plants - seeds, flowers, etc.

Study of 6 common weed plants, 6 typical trees.

Animal - Animals used by the Native.

Common birds

Bee, ant, cockroach, fly, etc.

Fish, snake, etc.

2nd yr Cert

Seeds - growth. Practical work - raising trees from seed.

Roots - Storage organs. Practical work to throw light on the principles of gardening practice.

Stem, Branch, Leaf.

Flower -

Fruit seeds. Weeds.

Locust, beetle, fly, termite, mosquito, flea, louse, lice, cockroach, tick, plant pests. Birds - their relation to man's crops & injurious insects.

Cape

Native Primary Lower (optional + 1 or 2 yrs)

Revision of Nature Study syllabus for primary schools.

Recognition of common grasses, weeds, wild flowers, trees & birds of locality.

Pictorial Seasonal Nature Calendar.

Germination of seeds - care of seedlings.

Parts of a plant - their functions

Life of tick - 2 common insect pests
mammals.

Weather

Soil erosion

The southern sky.

The globe - seasons, etc.

OFS Primary Schools

N. Study - Gardening

The aim of the course is to interest the child in the soil & nature in general, to observe natural phenomena accurately, to acquire an elementary knowledge of the cultivation of the soil, planting of & caring for vegetables, trees & cereals, treatment of & caring for animals.

Animals, Birds, Plants, Insects, Soils, Grasses, Trees, etc of area.

Practical growing & gardening.

Care of animals familiar to Africans,
crop rotation in gardens, etc.

Cape Primary Schools

Gardening is again combined with the N. Study. 2 periods a week are spent by all boys on practical work in the school garden under supervision. A number of group gardening projects are conducted, & the pupils in each group take turns to work ~~at~~ there. Vegetable crops are grown, & the boys are taught compost making, knowledge of pests & diseases, etc. Tree planting is done in the school grounds. — Sets 4 - 6.

1st primary

again Nature study combined with gardening.

The garden activities need not be confined to the garden but the beautification of all the school grounds & even of the children's home can well form a part of this activity.

Natal Primary

Throughout the course, the constant aim must be to impress upon all the pupils ~~that~~ the fact that all Nature follows definite laws - the laws of cause & effect.

Nature Study, Simple Physics etc combined with Gardening.

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