**Basic plant biology**

Start with eurythmy circle. Combining the earth with the cosmos.

First exercise is for each student to find and draw a plant. Spend at least 15 minutes doing the actual drawing, pull the plant carefully up from the soil and draw each constituent part. Plants as meeting points between soil and light.

Then draw a basic plant on the board and get the students to fill in all the parts. As many as possible.

Roots, root hairs, root nodules, stem, leaves, flower, fruit, seeds.

Describe life cycle of archetypal plant.

Seed, sprouting, cotelydons, roots, stem, leaves, flower, fruit, seed.

Context of plants. Soil, water, air, gases, minerals, mycelia, microorganisms, insects, animals, humans.

Fotosynthesis: Water + carbondioxide + light = sugar + oxygen + water

Dynamics of plants. Get students to help draw diagrams of the plants interactions, life cycles, needs and yields. Make it as complex and many layered as possible.

6 CO2 + 12 H2O + light – photosynthesis – C6 H12 O6 + 6 O2 + 6 H2O

Air water sugar oxygen water

Factors affecting plant growth:

 Light

 Temperature

 Nutrients

 Soil type

 Cosmic influences

 Sun

 Moon

 Planets

 Stars

DNA analysis research suggests that the earliest cells may have been capable of both photosynthesis and nitrogen fixing.

Mineral Plant Animal Human

Physical Etheric Astral Consciousness