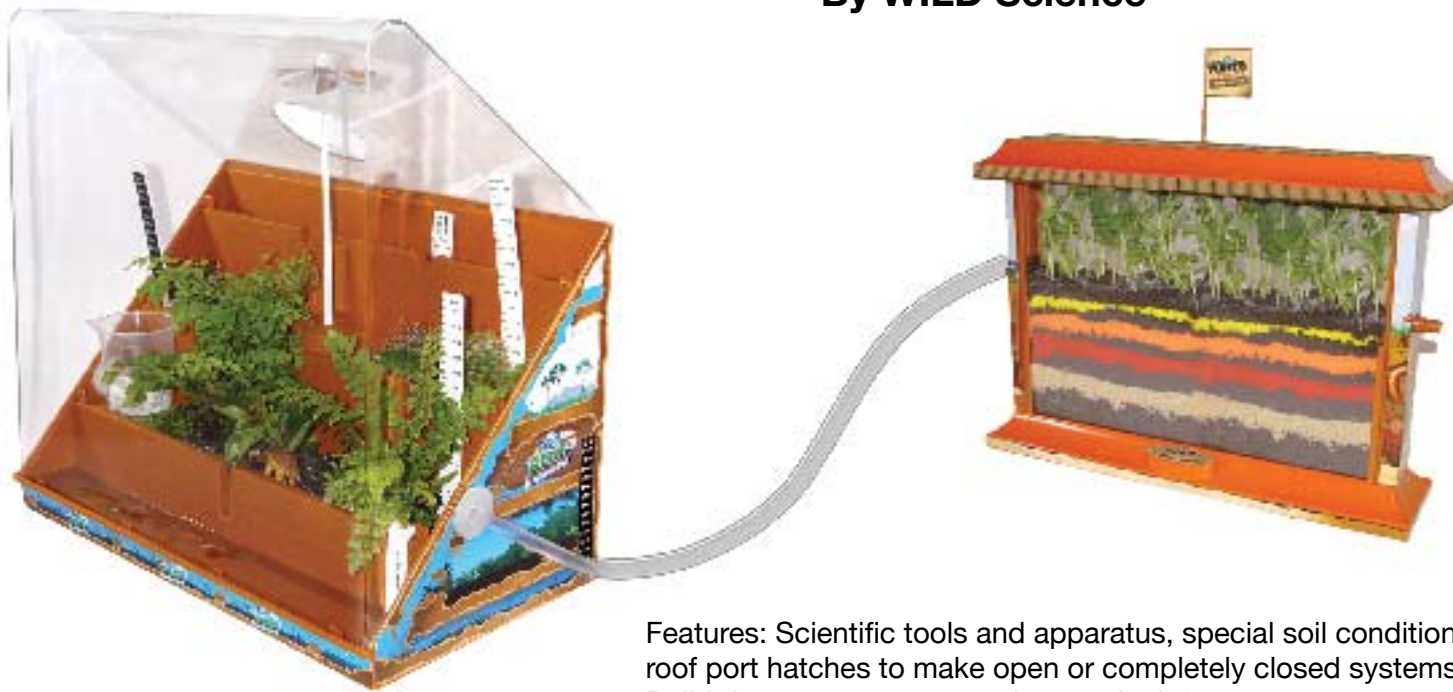


# The ECO Dome

By WILD Science

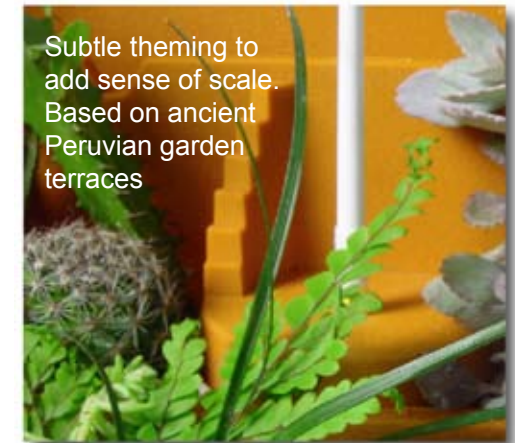


Above: The ECO Dome and Worm World connected

Features: Scientific tools and apparatus, special soil conditioners, roof port hatches to make open or completely closed systems. Build deserts, swamps, gardens and rainforests. Create rainstorms, winds, thermal fogs and more. Wide range of extension activities and kits soon to be available (see website).



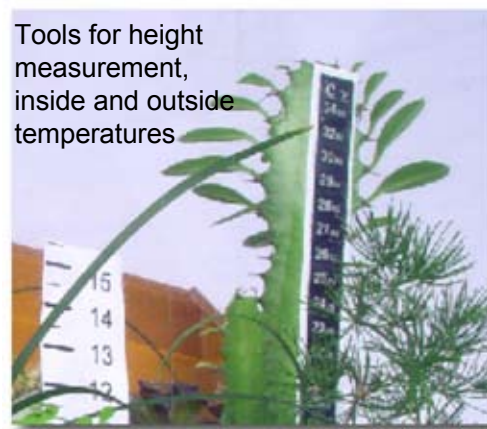
Directional air movement sensor detects up and down drafts



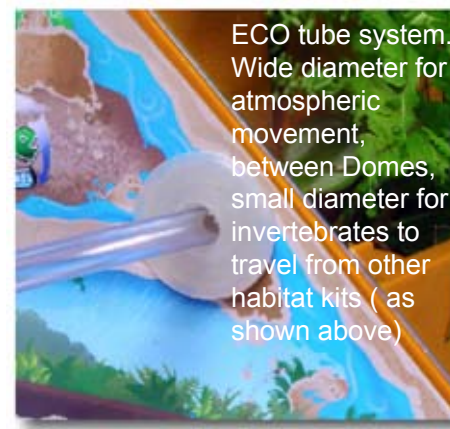
Subtle theming to add sense of scale. Based on ancient Peruvian garden terraces



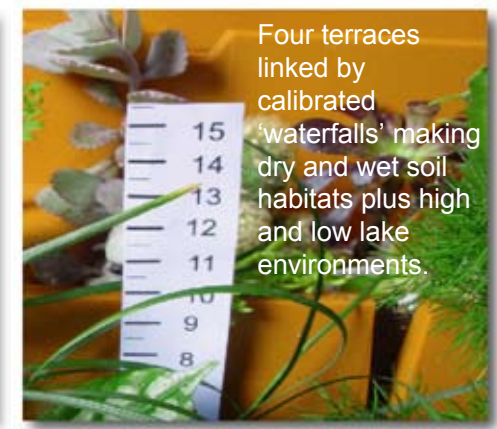
Track water volume movement from 'sea' to high lake via water cycle. Measure capture of free water into biomass



Tools for height measurement, inside and outside temperatures



ECO tube system. Wide diameter for atmospheric movement, between Domes, small diameter for invertebrates to travel from other habitat kits ( as shown above)



Four terraces linked by calibrated 'waterfalls' making dry and wet soil habitats plus high and low lake environments.

# Rainforest and Desert ECO Domes linked.

In sunlight, the atmosphere in both domes warms up by trapping infra red rays. The rising warm air can only escape via the Desert Eco, spinning the breeze sensor. To replace it, cool air comes from far away via the open port to the right of the Rainforest.

On the way the air picks up rainforest moisture and oxygen, taking it to the Desert.



This is just one of many, many environment and climate modeling experiments you can try. Big Science and Big Fun.



Sealed roof port increases humidity and reduces airflow at upper levels



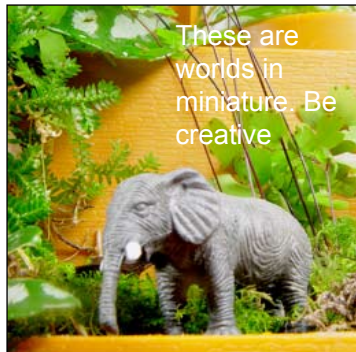
Dead logs bring nutrients and microhabitats for plants fungi and invertebrates



Carnivorous plants thrive on the wet lower levels

Desert ECO Dome configuration: Roof port open. Left side port closed. Right side port linked to Rainforest ECO Dome

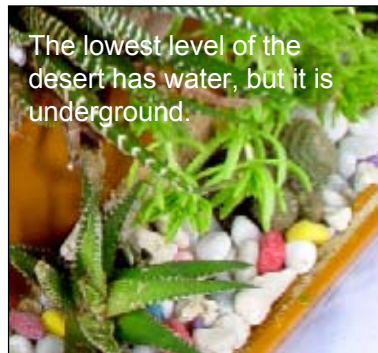
Rainforest ECO Dome configuration: Roof port closed. Right side port open. Left side port linked to Desert ECO Dome



These are worlds in miniature. Be creative



The upper levels grow larger succulents with roots tapping into deep moisture



The lowest level of the desert has water, but it is underground.



The air tunnel allows a breeze to be pulled through the rainforest into the desert



Nutrients trickle into the lower lake to support pond weed, algae protozoa and even Triops