



Current Curriculum

Poor, inconsistent soils-education at KS1-4 (Age 5-16)

The Curriculum Opportunity

Geography

geographical enquiry and skills

environmental change and sustainable development

Science: life processes and living things

variation, classification and inheritance

green plants as organisms

living things in their environment

Science: materials and their properties

acids and bases

geological changes

History

events, people and changes in the past

historical interpretation

Soil-Net Mission

A compelling journey into the world of soil and the functions and services it performs

Deliverables

Soil-Net.com managed website

Teacher Resources and lesson plans

Activity sheets and posters



Soil-Net Structure Overview

Part I General Introduction

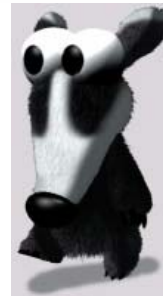
Part II The Global Cycles: Soils as part of the big Earth

Part III The Function of Soils

Part IV The Soils On Earth

Part V Threats To World Soils and Possible Solutions

Part VI Concerns for the Future



Delivery Themes

Student home research

Classroom – Working independently

Classroom – Shared experience

Teacher's resource

Locations: Classroom, ICT Lab, Outside ...



Forward Plans

Conclude and launch Soil-Net website

Develop classroom aids with teachers

Work towards community-based shared experience

Develop new stakeholder audience groups



The Soil-Net Team

Cranfield NSRI

Norwich School of Art and Design

Dialogue Designs

The Open University

Steering Committee

Defra

QCA

LEAF

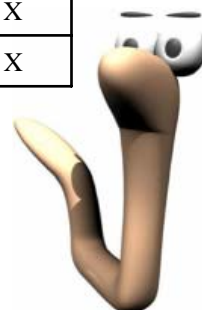
Science Learning Centres

SetNet





Part I General Introduction	KS1	KS2	KS3	KS4
Introduction: Soil, an essential of life	X	X	X	X
What is soil	X	X	X	X
Why does soil matter	X	X	X	X
Soil under the microscope	X	X	X	X
Properties of soil	X	X	X	X
How do soils form	X	X	X	X
Why do soils differ	X	X	X	X
Soil as a living being	X	X	X	X
Plants grow in soils. Plant nutrition. Letting a seed grow	X	X	X	X
The beginning of soil. Colonisation of rocks by lichens and mosses	X	X	X	X
Part II The Global Cycles : Soils as part of the big Earth	KS1	KS2	KS3	KS4
The oxygen cycle			X	X
The nitrogen cycle			X	X
The carbon cycle			X	X
Nutrient cycles			X	X
The hydrological cycle			X	X
Part III The Function of Soils	KS1	KS2	KS3	KS4
Farming and food production	X	X	X	X
Forestry – the taiga to the tropical rain forest. Commercial forestry	X	X	X	X
Ecology and Biodiversity – habitat, composition, development, diversity	X	X	X	X
Soils and Water – absorption and storage, flow and waterlogging	X	X	X	X
Soils in land reclamation and pollution control		X	X	X
Soils and their role in the country's infrastructure		X	X	X
Soils and archaeology		X	X	X
Soils and climate change		X	X	X
Soils and health	X	X	X	X
Land quality and planning the uses of soils		X	X	X





Part IV The Soils On Earth	KS1	KS2	KS3	KS4
Soils of Britain		X	X	X
Soils of the World			X	X
Part V Threats To World Soils and Possible Solutions	KS1	KS2	KS3	KS4
Soil erosion			X	X
Desertification			X	X
Acid rain			X	X
Use of fertilisers			X	X
Pollutants			X	X
Deforestation			X	X
Impacts of management on biodiversity			X	X
Climate change			X	X
Salinisation			X	X
Loss of organic matter			X	X
Acidification and the release of toxic metals			X	X
Compaction and the loss of soil structure			X	X
Building on soils and their sealing			X	X
Loss of soil habitats			X	X
Part VI Concerns for the Future	KS1	KS2	KS3	KS4
Pressure of population to produce food and on the soil in so doing		X	X	X
Pressure of population in terms of infrastructure and its impacts		X	X	X
Soil quality and the sustainability of land use systems		X	X	X
Management of water resources		X	X	X
Food safety and human health		X	X	X
Implications of future waste disposal to land		X	X	X
Soils in relation to water resources and their management		X	X	X
Loss of biodiversity		X	X	X
The need for a better understanding of the soil biological population and its role		X	X	X

Homework !!

<http://www.soil-net.com/ecoquiz/>

