

# **GEOGRAPHY - SCHEMES OF WORK**

For Children Aged 8 to 12

## **Geography Lessons Structure**

Time – Approx. 90 minutes

1. Remind class of last topic area explored and relate to current topic.
2. Discuss and explore each topic with concrete and abstract examples.
3. Experiments – where appropriate, possible and necessary.
4. Drama – Pupils enact areas of topic where appropriate.
5. Group Work – Set small groups an area to explore.
6. Practical Application – discuss how topic area is applied in every life.
7. Making Connections – discuss and explore connections between topic and other topic areas and subjects.
8. Media – use video clips and programmes and/or computer programmes and websites where appropriate.
9. Record through text and illustrations. Pupils under 10 to copy teacher's whiteboard recording. Pupils above 10 to record using their own words.
10. Plenary & Quiz.

## **Resources**

1. Geography Books
2. Maps
3. Globes
4. Field Trips
5. The New Forest
6. BBC Primary Learning
7. Internet
8. Green Experiments – Mega Test Tubes
9. Smart Science Kits
10. Microscope
11. Collected Items – Stones, Bones, Fossils etc...
12. Newspapers & Magazines
13. Geography Games
14. Apple Mac
15. DVD Videos and Clips

## **Geography Subject Areas**

1. Earth Science & Geology
2. Environmental Science
3. Meteorology
4. Cartography

## YEAR 4

### Autumn Term

#### 1. EARTH SCIENCE & GEOLOGY

##### 1. Earth Timeline

- a. Solar Nebula Dust
- b. Earth as a Planetesimal
- c. The Iron Catastrophe
- d. The Magnetic Field
- e. Creation of the Moon
- f. Arrival of Water
- g. Major Eras

##### 2. Earth's Layers

- a. The Inner Core
- b. The Outer Core
- c. The Mantle
- d. The Crust

#### 4. CARTOGRAPHY

##### 3. Maps

- a. Types of Maps
- b. Map Symbols
- c. Navigating Using a Map
- d. Treasure Hunt
- e. Making a Map

##### 4. Political Continents Maps & Fact Files

- a. World Map – Today

## Spring Term

### 1. EARTH SCIENCE & GEOLOGY

#### 5. Plate Tectonics

- a. Introduction & Overview
- b. Map of Crustal Plates
- c. Movement of Plates
- d. Earthquakes
- e. Tsunamis
- f. Creation of Mountains
- g. Volcanoes

#### 6. Rocks, Minerals & Fossils

- a. Rocks
  - i. The Rock Cycle
- b. Minerals
- c. Collecting & Labelling Rocks & Minerals
- d. Fossils
  - i. How Fossils Are Created
  - ii. Types of Fossils
  - iii. Fossil Collecting

#### 7. Continents & Oceans

- a. World Map of Continents & Oceans
- b. Creation Of Islands
- c. Continents – Introduction & Overview
- d. Oceans – Introduction & Overview

### 4. CARTOGRAPHY

#### 8. Maps

- a. Types of Maps
- b. Map Symbols
- c. Navigating Using a Map

#### 9. Political Continents Maps & Fact Files

- a. World Map – Today
- b. Europe

10. World Landmarks Map
11. World's Oceans Map

### Summer Term

## 2. ENVIRONMENTAL SCIENCE

### 12. Earth's Natural Resources

- a. Water
  - i. Introduction & Overview
  - ii. Different States of Water
  - iii. Natural Usages of Water
  - iv. Human Usages of Water
  - v. Types of Water
  - vi. Lakes & Inland Seas
  - vii. Rivers
  - viii. World's Major Rivers
  - ix. Source of a River
  - x. Role & Importance of Rivers
  - xi. Parts of a River
  - xii. Waterfalls
  - xiii. Canals & Aqueducts
  - xiv. Dams & Reservoirs
  - xv. Glaciers

### 13. Earth's Natural Cycles

- a. The Water Cycle

## 3. METEOROLOGY

### 14. Signs of the Seasons

- a. Why Planet Earth has Seasons
- b. The Different Seasons
- c. Spring
- d. Summer
- e. Autumn
- f. Winter
- g. Dry Season
- h. Wet Season
- i. Monsoon Season

#### 4. CARTOGRAPHY

15. Maps
  - a. Types of Maps
  - b. Map Symbols
  - c. Navigating Using a Map
  - d. Treasure Hunt
  - e. Making a Map
  
16. Political Continents Maps & Fact Files
  - a. World Map – Today
  - b. Europe
  
17. Countries Maps & Fact Files
  - a. United Kingdom
  
18. World Landmarks Map
  
19. World's Oceans Map
  
20. World's Rivers Map

### **YEAR 5**

#### Autumn Term

#### 1. EARTH SCIENCE & GEOLOGY

21. Mountains
  - a. World's Mountain Ranges
  - b. Fold Mountains
  - c. Block Mountains
  - d. Dome Mountains
  
22. Forests
  - a. Types of Forests
  - b. Temperate Needleleaf
  - c. Temperate Broadleaf & Mixed

- d. Tropical Moist
- e. Tropical Dry
- f. Parkland Forests
- g. Forest Plantations

23. Soil

- a. Composition of Soil
- b. Importance of Soil
- c. Soil Erosion – Natural
- d. Soil Erosion – Caused by Humans

24. Grasslands & Savannahs

- a. World's Grasslands & Savannahs
- b. How Grasslands & Savannahs are Created
- c. Habitat

25. Deserts & Tundra

- a. World's Deserts
- b. How Deserts Are Created
- c. Sand
- d. Desert Habitat
- e. World's Tundra
- f. How Tundra is Created
- g. Tundra Habitat

4. CARTOGRAPHY

26. Maps

- a. Types of Maps
- b. Map Symbols
- c. Navigating Using a Map
- d. Treasure Hunt
- e. Making a Map

27. Political Continents Maps & Fact Files

- a. Africa
- b. Europe

28. World's Mountains Map

29. World's Forests Map

- 30. World's Grasslands & Savannahs Map
- 31. World's Deserts Map
- 32. World's Tundra & Taiga

### Spring Term

## 2. ENVIRONMENTAL SCIENCE

### 33. Earth's Natural Resources

- a. Fossil Fuels
  - i. Coal
  - ii. Oil
  - iii. Natural Gas
- b. Minerals
  - i. Mining
  - ii. Gold
  - iii. Silver
  - iv. Copper
  - v. Diamonds
  - vi. Iron
  - vii. Uranium
- c. Wood
  - i. Rainforests
  - ii. Sustainable Wood Sources

### 34. Environmental Issues

- a. Global Warming
  - i. The Science of Global Warming
  - ii. The History of Global Warming
  - iii. Causes
  - iv. Short Term Effects
  - v. Possible Long Term Effects
  - vi. Possible Solutions
- b. Deforestation
  - i. The Rate & Extent of Deforestation
  - ii. Causes
  - iii. Short Term Effects
  - iv. Possible Long Term Effects
  - v. Possible Solutions

## 4. CARTOGRAPHY

### 35. Maps

- a. Types of Maps
- b. Map Symbols
- c. Navigating Using a Map

### 36. Political Continents Maps & Fact Files

- a. Asia
- b. Australasia

### 37. Countries Maps & Fact Files

- a. France

## Summer Term

## 2. ENVIRONMENTAL SCIENCE

### 38. Earth's Natural Cycles

- a. The Oxygen Cycle
- b. The Carbon Cycle

### 39. Local Environment

- a. New Forest Habitat
- b. New Forest Plants
- c. New Forest Trees
- d. New Forest Wild Flowers
- e. New Forest Geographical Map
- f. New Forest Towns & Villages
- g. Urban Landscapes
- h. Rural Landscapes
- i. New Forest Environmental Issues

## 3. METEOROLOGY

### 40. Earth's Atmosphere

- a. Introduction & Overview

- b. Why is the Sky Blue?
- c. Why are Sunsets Red?
- d. How Rainbows are Formed
- e. Layers of the Atmosphere

#### 4. CARTOGRAPHY

##### 41. Maps

- a. Types of Maps
- b. Map Symbols
- c. Navigating Using a Map
- d. Treasure Hunt
- e. Making a Map

##### 42. Political Continents Maps & Fact Files

- a. North America
- b. South America

##### 43. Countries Maps & Fact Files

- a. U.S.A.
- b. Brazil

##### 44. World's Mountains Map

##### 45. World's Forests Map

##### 46. World's Grasslands & Savannahs Map

##### 47. World's Deserts Map

##### 48. World's Tundra & Taiga

## YEAR 6

### Autumn Term

#### 1. EARTH SCIENCE & GEOLOGY

49. Continents & Oceans
- a. Geographical Maps & Fact Files
    - i. Africa
    - ii. Asia
    - iii. Europe
    - iv. North America
    - v. South America
    - vi. Australasia
    - vii. Antarctica
  - b. Geographical Maps & Fact Files
    - i. Pacific Ocean
    - ii. Atlantic Ocean
    - iii. Indian Ocean
    - iv. Arctic Ocean

#### 2. ENVIRONMENTAL SCIENCE

50. Earth's Natural Resources
- a. Solar Power
  - b. Wind Power
  - c. Hydropower
  - d. Nuclear Power
  - e. Sustainable & Non-Sustainable Usage

#### 4. CARTOGRAPHY

51. Maps
- a. Types of Maps
  - b. Map Symbols
  - c. Navigating Using a Map
  - d. Treasure Hunt
  - e. Making a Map
52. World's Major Cities Map

## Spring Term

### 53. Environmental Issues

- a. Pollution
  - i. Land Pollutants
  - ii. Water Pollutants
  - iii. Air Pollutants
  - iv. Causes
  - v. Short Term Effects
  - vi. Possible Long Term Effects
  - vii. Areas of High Pollution
  - viii. Possible Solutions
- b. Extinction
  - i. Endangered Animals
  - ii. Endangered Plants
  - iii. Causes
  - iv. Short Term Effects
  - v. Possible Long Term Effects
  - vi. Possible Solutions
- c. Population Explosion
  - i. World Historical Population Growth
  - ii. Continent Historical Population Growth
  - iii. Causes
  - iv. Short Term Effects
  - v. Possible Long Term Effects
  - vi. Possible Solutions
- d. Waste Disposal Issues
  - i. Causes
  - ii. Short Term Effects
  - iii. Possible Long Term Effects
  - iv. Possible Solutions
- e. The Hole in the Ozone Layer
  - i. Causes
  - ii. Short Term Effects
  - iii. Possible Long Term Effects
  - iv. Possible Solutions

### 54. Earth's Natural Cycles

- a. The Nitrogen Cycle

## 4. CARTOGRAPHY

### 55. Maps

- a. Types of Maps
- b. Map Symbols

- c. Navigating Using a Map
- d. Treasure Hunt
- e. Making a Map

56. Countries Maps & Fact Files

- a. Kenya

57. World's Major Cities Map

58. World Populations Map

Summer Term

2. ENVIRONMENTAL SCIENCE

59. Local Environment

- a. New Forest Habitat
- b. New Forest Plants
- c. New Forest Trees
- d. New Forest Wild Flowers
- e. New Forest Geographical Map
- f. New Forest Towns & Villages
- g. Urban Landscapes
- h. Rural Landscapes
- i. New Forest Environmental Issues

3. METEOROLOGY

60. Earth's Weather

- a. Introduction & Overview
- b. Air Pressure
- c. Measuring Air Pressure
- d. Weather Fronts
- e. Air Temperature
  - i. Measuring Temperature
  - ii. World Temperature Statistics
- f. Humidity
- g. Clouds
  - i. Introduction & Overview
  - ii. High Clouds
  - iii. Middle Clouds
  - iv. Low Clouds

- v. Vertically Developing Clouds
- h. Thunder & Lightning
- i. Precipitation
  - i. Rain
  - ii. World Rainfall Patterns
  - iii. Monsoon
  - iv. Sleet & Snow
  - v. World Snowfall
  - vi. Hail
- j. Weather Forecasting
  - i. Recording the Weather
  - ii. Weather Observations
  - iii. Satellite & Radar
  - iv. Computer Predictions

#### 4. CARTOGRAPHY

##### 61. Maps

- a. Types of Maps
- b. Map Symbols
- c. Navigating Using a Map
- d. Treasure Hunt
- e. Making a Map

##### 62. Countries Maps & Fact Files

- a. India
- b. New Zealand

### YEAR 7

#### Autumn Term

#### 1. EARTH SCIENCE & GEOLOGY

##### 63. Earth Timeline Project

- a. Solar Nebula Dust
- b. Earth as a Planetesimal
- c. The Iron Catastrophe
- d. The Magnetic Field
- e. Creation of the Moon
- f. Arrival of Water

- g. Precambrian Era
- h. Palaeozoic Era
- i. Mesozoic Era
- j. Cenozoic Era

64. Earth's Layers Project

- a. The Inner Core
- b. The Outer Core
- c. The Mantle
- d. The Crust

65. Plate Tectonics Project

- a. Map of Crustal Plates
- b. Movement of Plates
- c. Historical Journey of the British Land Mass
- d. Earthquakes
- e. Tsunamis
- f. Creation of Mountains
- g. Volcanoes
- h. Maps of Historical Plates
- i. Map of Possible Future Plates

66. Rocks, Minerals & Fossils Project

- a. Rocks
  - i. The Rock Cycle
  - ii. Types of Rock
  - iii. Rock Formations
- b. Minerals – Difference Between Rocks & Minerals
  - i. How Minerals Are Created
  - ii. Crystals
- c. Collecting & Labelling Rocks & Minerals
- d. Fossils
  - i. How Fossils Are Created
  - ii. Types of Fossils
  - iii. Fossil Collecting

#### 4. CARTOGRAPHY

67. Political Continents Maps & Fact Files

- a. World Map – 1500
- b. World Map – 1900

## Spring Term

### 1. EARTH SCIENCE & GEOLOGY

#### 68. Continents & Oceans Project

- a. World Map of Continents & Oceans
- b. Creation Of Islands
- c. Geographical Maps & Fact Files
  - i. Africa
  - ii. Asia
  - iii. Europe
  - iv. North America
  - v. South America
  - vi. Australasia
  - vii. Antarctica
- d. Composition of Sea Water
- e. Geographical Maps & Fact Files
  - i. Pacific Ocean
  - ii. Atlantic Ocean
  - iii. Indian Ocean
  - iv. Arctic Ocean
- f. Coastal Shelves
- g. Shorelines
- h. Ocean Currents & Tides

### 2. ENVIRONMENTAL SCIENCE

#### 69. Environmental Issues Project

- a. Global Warming
  - i. The Science of Global Warming
  - ii. The History of Global Warming
  - iii. Causes
  - iv. Short Term Effects
  - v. Possible Long Term Effects
  - vi. Possible Solutions
- b. Deforestation
  - i. The Rate & Extent of Deforestation
  - ii. Causes
  - iii. Short Term Effects
  - iv. Possible Long Term Effects
  - v. Possible Solutions
- c. Pollution
  - i. Land Pollutants
  - ii. Water Pollutants
  - iii. Air Pollutants
  - iv. Causes

- v. Short Term Effects
- vi. Possible Long Term Effects
- vii. Areas of High Pollution
- viii. Possible Solutions
- d. Extinction
  - i. Endangered Animals
  - ii. Endangered Plants
  - iii. Causes
  - iv. Short Term Effects
  - v. Possible Long Term Effects
  - vi. Possible Solutions

#### 4. CARTOGRAPHY

##### 70. World's Environmental Issues Maps

##### Summer Term

- a. Population Explosion
  - i. World Historical Population Growth
  - ii. Continent Historical Population Growth
  - iii. Causes
  - iv. Short Term Effects
  - v. Possible Long Term Effects
  - vi. Possible Solutions
- b. Waste Disposal Issues
  - i. Causes
  - ii. Short Term Effects
  - iii. Possible Long Term Effects
  - iv. Possible Solutions
- c. The Hole in the Ozone Layer
  - i. Causes
  - ii. Short Term Effects
  - iii. Possible Long Term Effects
  - iv. Possible Solutions

##### 71. Earth's Natural Cycles

- a. Gaia Theory

#### 3. METEOROLOGY

##### 72. Earth's Atmosphere

- a. The Troposphere

- b. The Stratosphere
- c. The Mesosphere
- d. The Thermosphere
- e. The Exosphere

73. Earth's Winds

- a. Introduction & Overview
- b. Thunderstorms
- c. Hurricanes & Typhoons
- d. Tornadoes
- e. Planetary Winds
- f. Secondary Winds
- g. Regional Winds
- h. Wind Scales
- i. The Jet Stream
- j. Earth's General Circulation

4. CARTOGRAPHY

74. World Weather Maps

