GEOGRAPHICAL SKILLS FOR Common Entrance at 13/KS3 Aimed at ages 11-13.

Atlas skills

Atlas skills should be developed and location knowledge is required

Ordinance Survey map-work skills

4-figure and 6-figure grid references; eastings, northings; spot heights and contours; direction orientation (8 points of the compass); distance; area

follow routes; identify relief and landscape features (slope steepness, plateau, flood plain, valley, headland, bay etc. see glossary); annotate simple sketch sections; use maps in decision-making; understand site, situation and shape of settlements

Fieldwork and enquiry skills

1. Collection and recording

questionnaires: use and design; sampling; surveys, e.g. shopping, traffic and pedestrian counts; environmental quality surveys; land-use mapping; other mapping skills; field sketches

2. Presentation

maps: key, scale, direction; shaded (choropleth) maps; annotated sketch maps; flow maps annotated field sketches and photographs; graphs, bar charts, divided bar charts, pie charts, histograms, pictograms; simple annotated cross-sections; sketch sections; tabular presentation of data; land-use maps

THEMATIC STUDIES

Five areas of study: Earthquakes and Volcanoes, Weather and Climate, Rivers and Coasts, Population and Settlement, Transport and Industry.

1. Earthquakes and Volcanoes (tectonic processes)

Pupils should study:

Candidates should demonstrate an understanding of:

the basic structure of the Earth tectonic plates, constructive and destructive boundaries and what causes them to move the global distribution of earthquakes and volcanoes

an example of either an earthquake or a volcanic eruption to show the nature, causes, environmental and human effects, and human responses

the four layers of the Earth, including the difference between oceanic and continental crust how to annotate a diagram both of a constructive plate boundary (where oceanic plates move apart) and a destructive plate boundary (where oceanic and continental plates meet) one case study of an earthquake or volcanic eruption from a developed country and one case study of an earthquake or volcanic eruption from a developing country

2. Weather and Climate (meteorological processes)

Pupils should study: Candidates should demonstrate an understanding of:

(i) the difference between weather and climate

(ii) microclimates

(iii) the water cycle

(iv) types of rainfall

(v) causes of temperature and rainfall variation from place to place in the British Isles the influence of aspect, shelter, buildings, surface and natural features in relation to microclimates.

Evaporation, transpiration, condensation, precipitation, interception, surface run-

off, infiltration and throughflow.

relief, convectional, frontal; how to draw or annotate a diagram to explain the formation of different types

of rainfall

the main temperature and rainfall patterns in the

British Isles

the influence of latitude, altitude, relief, prevailing winds, distance from coast and the basic impact of the North Atlantic Drift and the

Jet Stream

3. Rivers and Coasts (geomorphological processes)

Pupils should study:

Candidates should demonstrate an understanding of:

(i) processes of weathering

(ii) processes of erosion, transportation and deposition in understanding the development of the following landforms: valley, waterfall, gorge,meander, caves, arches, stacks, stumps,

beaches, spits

(iii) the causes and effects of and responses to a flood

physical (freeze thaw/frostshattering), chemical and biological weathering erosion: hydraulic action, abrasion/ corrasion, solution/corrosion, attrition transportation: floating, solution, suspension, traction, saltation, swash, backwash,

longshore drift

how to draw annotated diagrams to illustrate the formation of each landform (or

a sequence of these

landforms)

one case study of a flood (either river or coastal) from anywhere in the world; this should include physical and human causes, the human, economic and environmental impact; reducing the risks

4. Population and Settlement (demographic processes)

Pupils should study:

Candidates should demonstrate an understanding of:

(i) population numbers and population density for the UK and the world why some places are crowded and others relatively empty

(ii) the causes of the rise or fall of the population of an individual country

the meaning of birth rate, death rate, natural increase and migration the factors which early settlers considered when choosing sites for new settlements the reasons why some settlements grew and others

(iii) the reasons for the site, shape, situation, growth and nature of individual settlements

did not settlement hierarchies

(iv) the relationship between the provision of goods and services and settlement size (v) the management of urban development

a case study of a planned or completed housing/facilities project developed in an

environmentally sensitive way, e.g. Queen Elizabeth Olympic

Park

5. Transport and Industry (economic processes)

Pupils should study:

Candidates should demonstrate an understanding of:

(i) the value of transport routes for people and industry

how transport routes link settlements and industries, and can affect quality of life

the advantages and

(ii) the principal modes of transport today – road, rail, sea and air – together with their impact on the environment

disadvantages of transporting people and goods by road, rail, sea and air a case study of a planned or completed transport project, e.g. HS2 or Heathrow expansion, where economic costs/benefits are weighed against environmental costs/benefits

(iii) the different types (sectors) of economic activity

primary, secondary, tertiary,

quaternary

the relationship between the

level of economic development and the

percentage of people working

in each sector

(iv) how economic activities operate in contrasting locations

(v) how economic development can be made sustainable

a case study of any multinational company operating both in a developed and developing country/countries or any economic activity in a developed country (or local area) compared to a case study of the same (or similar) economic activity in a developing country reasons for their locations (e.g. natural resources/raw materials, site, labour, power source, market, transport), their inputs, throughputs, outputs and linkages the benefits and problems (including environmental) which economic activities bring to areas the following terms: living standards, exploit, protect, conserve, manage, stewardship, sustainable development

LOCATION KNOWLEDGE

It is expected that those in **bold italics** will be known at age 11+.

THE UNITED KINGDOM AND EUROPE

Continents: Europe

Major

physical features:

Mountain ranges Alps, Pyrenees

Oceans Atlantic, Arctic
Seas Mediterranean

Rivers Rhine

Other features Arctic Circle, North Pole, Prime Meridian

Countries England, Wales,

British Isles: Scotland,

Northern Ireland, Rep. of Ireland

Sea areas English Channel, Irish Sea, North Sea

Rivers Severn, Thames, Trent, Clyde, Shannon, Mersey,

Tyne

Sea areas

Upland areas Islands

Major cities

Grampians, Lake District, Pennines, Snowdonia
Anglesey, Jersey, Guernsey, Isle of Man, Orkneys,
Shetlands, Isle of Wight
Belfast, Birmingham, Bristol, Cardiff, Dublin,
Edinburgh, Glasgow, Leeds, Liverpool, London,
Manchester, Newcastle, Plymouth, Southampton

Countries and their capitals: Europe

Belgium (Brussels), Denmark (Copenhagen), France (Paris), Germany (Berlin), Greece (Athens), Iceland (Reykjavik), Italy (Rome), Netherlands (Amsterdam), Norway (Oslo), Poland (Warsaw), Portugal (Lisbon), Russia (Moscow), Spain (Madrid), Switzerland (Bern)

It is expected that those in **bold italics** will be known at age 11+.

THE REST OF THE WORLD

Continents : Africa, Asia, North America, South America , Oceania, Antarctica

Major physical features Mountain ranges

Deserts

Oceans/seas

Rivers

Other features

Sahara
Atlantic, Arctic, Indian, Pacific,
Southern Oceans,
Red Sea
Amazon, Mississippi, Nile, Yangtze
(Chang Jiang), Ganges
Arctic Circle, Antarctic Circle,
Equator, International Dateline,
North Pole, South Pole, Prime
Meridian, Tropic of Cancer,
Tropic of Capricorn

Andes, *Himalayas*, Rockies

Countries and their capitals

Africa Egypt (Cairo),

Ethiopia (Addis Ababa), Ghana (Accra), Kenya (Nairobi), Nigeria (Abuja), South Africa (Pretoria) North America Canada (Ottawa), Mexico (Mexico City), USA (Washington DC) Argentina (Buenos Aires), Brazil South America (Brazilia), Chile (Santiago), Colombia (Bogota), Peru (Lima) Afghanistan (Kabul), Bangladesh Asia (Dhaka/Dacca), China (Beijing), India (New Delhi), Indonesia (Jakarta), Iran (Tehran), Iraq (Baghdad), Israel (Jerusalem), Japan (Tokyo), Pakistan (Islamabad), Russia (see Europe), Saudi Arabia (Riyadh), South Korea (Seoul), Thailand (Bangkok), Turkey (Ankara) (also in Europe) Oceania Australia (Canberra), New Zealand (Wellington), Papua New Guinea (Port Moresby)

Other major cities and city states:

Dubai, Kolkata, Los Angeles, New York, Rio de Janeiro, Sao Paulo, Shanghai, Sydney, Vancouver