

## Educational requirements for the IB class entrance exam in **Geography**

1. Material from the core curriculum for the subject geography at lower educational levels (pre-dating grammar school).
2. Material from the pre-IB class curriculum for geography:
  - 2.1. Sources of information in geography
    - 2.1.1. Sources of information and data presentation in geography
    - 2.1.2. Maps
  - 2.2. The Earth as a part of the Universe
    - 2.2.1. The Universe and the Solar System
    - 2.2.2. The Earth's revolution
    - 2.2.3. The Earth's rotation
  - 2.3. Atmosphere
    - 2.3.1. Air temperature and pressure
    - 2.3.2. Atmospheric circulation. Atmospheric moisture
    - 2.3.3. Precipitation
    - 2.3.4. Factors affecting climate
    - 2.3.5. Synoptic system. Weather forecasting
  - 2.4. Hydrosphere
    - 2.4.1. Global water resources
    - 2.4.2. Oceans and seas
    - 2.4.3. Surface waters: rivers, lakes, glaciers
    - 2.4.4. Water balance
  - 2.5. Lithosphere
    - 2.5.1. Internal structure of the Earth
    - 2.5.2. Endogenic processes and plate tectonics
    - 2.5.3. Minerals and rock types (economic value included)
    - 2.5.4. Weathering
    - 2.5.5. Karst topography
    - 2.5.6. Fluvial processes and landforms
    - 2.5.7. Glacial and fluvioglacial processes and landforms
    - 2.5.8. Aeolian processes and landforms
    - 2.5.9. Coastal processes and landforms
  - 2.6. Pedosphere and biosphere
    - 2.6.1. Soil formation and processes
    - 2.6.2. World biomes
    - 2.6.3. Environmental protection
  - 2.7. Political geography
    - 2.7.1. Colonialism and decolonisation
    - 2.7.2. World political map
    - 2.7.3. International conflicts and terrorism
    - 2.7.4. Processes integrating the world. International organizations
  - 2.8. Population
    - 2.8.1. Civilisation and tradition
    - 2.8.2. Migration

- 2.8.3. Urbanisation
- 2.8.4. Settlement
- 2.9. Global economy
  - 2.9.1. Stages of economic growth. Structure of national economy
  - 2.9.2. Factors affecting farming (agriculture, forestry, fishery included)
  - 2.9.3. Manufacturing industries and energy production
  - 2.9.4. Services
  - 2.9.5. Tourism
  - 2.9.6. Globalization processes
  - 2.9.7. International trade
  - 2.9.8. ICT: information and communication technologies
- 2.10. Global economic development
  - 2.10.1. Measuring development
  - 2.10.2. Stages in economic growth
  - 2.10.3. Sustainable development
  - 2.10.4. Human impact on atmosphere and hydrosphere
  - 2.10.5. Human impact on lithosphere (farming, manufacturing)
  - 2.10.6. Human impact on soils and biosphere
- 2.11. Geographical skills
  - 2.11.1. Basics of descriptive statistics
  - 2.11.2. Research work: research question, hypothesis
  - 2.11.3. Map skills