



## MATURITNÍ TÉMATA

Školní rok:	2022/2023		
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Schváleno předmětovou komisí dne:	29. 8. 2022	Podpis:	
Schváleno ředitelem školy dne:	23. 9. 2022	Podpis a razítko:	
Počet výtisků:	6	Výtisk č.:	1

### 1. The Solar System

- The Solar System
- The Sun
- The Moon
- Exploring the Solar System

### 2. The Earth as a Planet of the Solar System

- Basic characteristics of the Earth
- Internal structure of the Earth
- Movements of the Earth and their consequences

### 3. Cartography

- Map projections
- Classification of maps
- Content of a map, map symbols
- Modern mapping methods

### 4. Atmosphere

- Vertical structure of atmosphere
- Atmospheric moisture
- Weather: air masses, fronts, mid-latitude depressions
- Climate: factors affecting climate, urban microclimate
- Klimatické oblasti České republiky

## **5. Atmosphere – Atmospheric Motion**

- The tricellular model of global air circulation
- Monsoons, land and sea breeze, mountain, and valley wind, föhn
- Natural hazards caused by weather
- Climatic change – past and future

## **6. Hydrosphere – Oceans and Seas**

- Properties of ocean water
- Topography of the ocean floor, coastal features
- Economic value of oceans and seas

## **7. Glaciers**

- Glaciers: formation, types of glaciers and world distribution, Polar regions
- Landforms produced by glacial erosion and deposition
- Economic value of glacial environment

## **8. Hydrosphere – Rivers, Lakes, Groundwater**

- River regimes, long river profile and fluvial landforms
- Types of lakes according to their origin
- Groundwater and artesian basins and their examples in the world
- Economic value of rivers, lakes, and groundwater
- Vodstvo České republiky

## **9. Lithosphere – endogenic processes**

- Plate tectonics and major landforms resulting from plate movements
- Volcanoes, earthquakes, and their distribution in the world
- Geologie a geomorfologie České republiky

## **10. Lithosphere – exogenic processes**

- Weathering, erosion, transportation, and deposition
- Landforms created by running water, seas, glaciers, and wind
- Karst formation
- Geologie a geomorfologie České republiky

## **11. The Commonwealth of Independent States**

- Main physical and human geography characteristics
- Economic geography of the region
- Conflict zones
- The Russian Federation

## **12. Germany and Alpine countries**

- Main physical and human geography characteristics
- Economic geography of the region
- The core areas
- European Union relations

### **13. Natural Zones – The Relation Between Climate, Vegetation and Soil at the Global Scale**

- Climate types, zonal soils, biomes
- Human pressure on natural zones
- Ochrana přírody v České republice

### **14. East Asia and Southeast Asia**

- Similarities and differences in physical and human geography characteristics
- Key economic geography features, newly industrializing countries
- China, Japan and Indonesia – their strengths and weaknesses

### **15. World Economy Focused on Secondary Industries**

- Sectors of economy
- Traditional and modern trends in location of industry
- World industrial zones
- Power generating industry
- Průmysl České republiky

### **16. Agriculture**

- Factors affecting farming, types of farming and their world distribution
- Farming as a threat to the environment
- Green Revolution
- Fishing and Forestry
- Zemědělství České republiky

### **17. Settlement**

- Rural and urban settlement – differences, patterns
- Hierarchy of urban settlement on examples from the world
- Cities in developing countries and problems resulting from their rapid growth
- Srovnání dvou vybraných krajů – charakteristika přírodních a hospodářských poměrů s ohledem na společné a rozdílné znaky

### **18. The United States and Canada**

- Landforms and land uses
- Human geography characteristics
- Key economic geography features

### **19. Services**

- Classification of services
- World transport and its impact on the environment
- Tourism and its impact on the environment
- Globalisation in service industry
- Doprava, služby a cestovní ruch v České republice

## **20. Population**

- The Demographic Transition Model, Population pyramids and basic characteristics
- Trends and population policies affecting population growth
- Ageing population and its consequences
- Migration: types, possible consequences
- Obyvatelstvo České republiky

## **21. Latin America**

- Main physical and human geography characteristics
- Key economic geography features
- The core and periphery regions
- Central America, South America

## **22. Sub-Saharan Africa**

- Main physical and human geography characteristics
- Problems of the region and the international aid
- Economic geography of the region
- The Republic of South Africa

## **23. Western Europe**

- Main physical and human geography characteristics
- Key economic geography features
- The European core and periphery
- Benelux, France, the United Kingdom, the Republic of Ireland

## **24. Northern Europe**

- Main physical and human geography characteristics
- Key economic geography features
- The Nordic and Baltic countries

## **25. Northern Africa**

- Main physical and human geography characteristics
- Key economic geography features
- Problems of North Africa
- Major countries in the region

## **26. Australia and Oceania**

- Main physical and human geography characteristics
- Key economic geography features
- Australia and New Zealand
- Oceania and its major division

## **27. Transition Economies in Central and Southeast Europe**

- Main physical and human geography characteristics
- Key economic geography features
- Group V4
- The EU and non-EU countries in Southeast Europe

## **28. Western Asia**

- Main physical and human geography characteristics
- Key economic geography features
- Countries of the Fertile Crescent and the Gulf region, Turkey

## **29. Southern Europe**

- Main physical and human geography characteristics
- Key economic geography features
- Human pressure on the Mediterranean environment
- Major countries in the region

## **30. South Asia**

- Main physical and human geography characteristics
- Key economic geography features
- Major countries in the region