

## UNIT 4.

**Exercise 1. Read and translate the text. Learn unknown words.**

### Different Types of Maps

In order to study thoroughly the features of the earth the science of geography relies on many different types of maps. Some maps are so common to us that even a pupil would recognize them. We refer to them during our trips, in school classrooms and in daily lives for information. Other maps are used only by professionals in specialized fields.

### What Is a Map?

A map is a visual representation of the whole area or a part of it. It's not only a representation of the Earth's surface. Maps represent various things such as national boundaries, physical features, climates, population, the locations of cities, economic activity and so on. For this very reason we can mention different types of maps.

### Thematic Maps

- A thematic map is one that focuses on a particular main idea (or theme).
- These might include:
  - Climate
  - Vegetation
  - Economy
  - Population
  - Language



Thematic maps display specific data which can include, for instance, the average rainfall distribution for a certain area or the distribution of a particular disease throughout a country.

With the increased use of Geographic Information Systems (GIS), thematic maps are growing in importance and becoming more readily available. Furthermore,

the digital revolution of the 21st century has contributed much to the shift from paper maps to electronic ones.

Below you can find a list of the most common types of maps used by geographers.

### Political Maps

A political map does not show topographic features like mountains. It is a type of the map that represents political divisions, or human-created boundaries of the world, continents and major geographic areas.



Political maps can vary in size and content. Some political maps cover entire continents, while others may include the locations of cities, depending on the detail of the map. Each political map can also focus on different types of political features.

A common type of political map would be one showing the regions of our country and their borders along with the Ukraine's international borders.

### Physical Maps



Physical maps are used demonstrate the physical features of an area, such as mountains, rivers and lakes. Blue colour is usually used to indicate rivers, lakes, seas and oceans. Light blue color is used for the shallowest areas and darkening for areas of deeper water. Glaciers and ice caps are shown in white colors. Brown colour indicates

mountains and plateaus, different shades of green are used to represent elevations.

### Topographic Maps

A topographic map is similar to a physical map as it shows different physical landscape features. These features include:

**cultural:** roads, buildings, railways, airports, administrative boundaries, state and international borders;

**hydrography:** lakes, rivers, streams, swamps;

**relief:** mountains, valleys, cliffs;

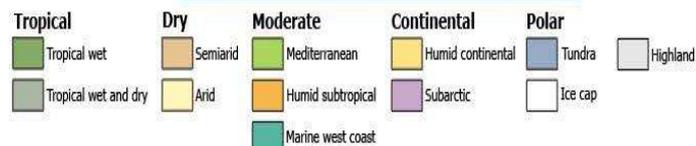
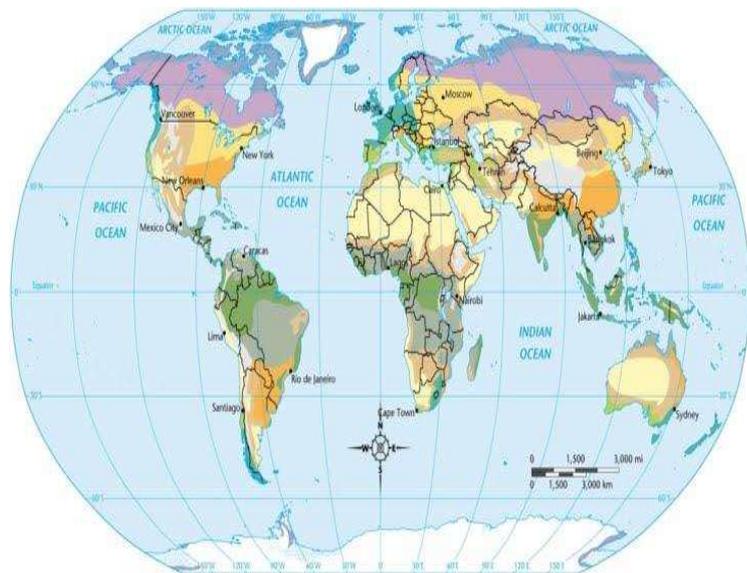
**vegetation:** wooded and cleared areas, vineyards and orchards.

Changes in the landscape are shown by means of contour lines. These lines normally spaced at regular intervals to show elevation changes and when lines are close together the terrain is steep.

### Climate Maps

A climate map shows information about the territorial distribution of climatic conditions based on the results of long-term observations. Climatic maps are compiled for individual climatic

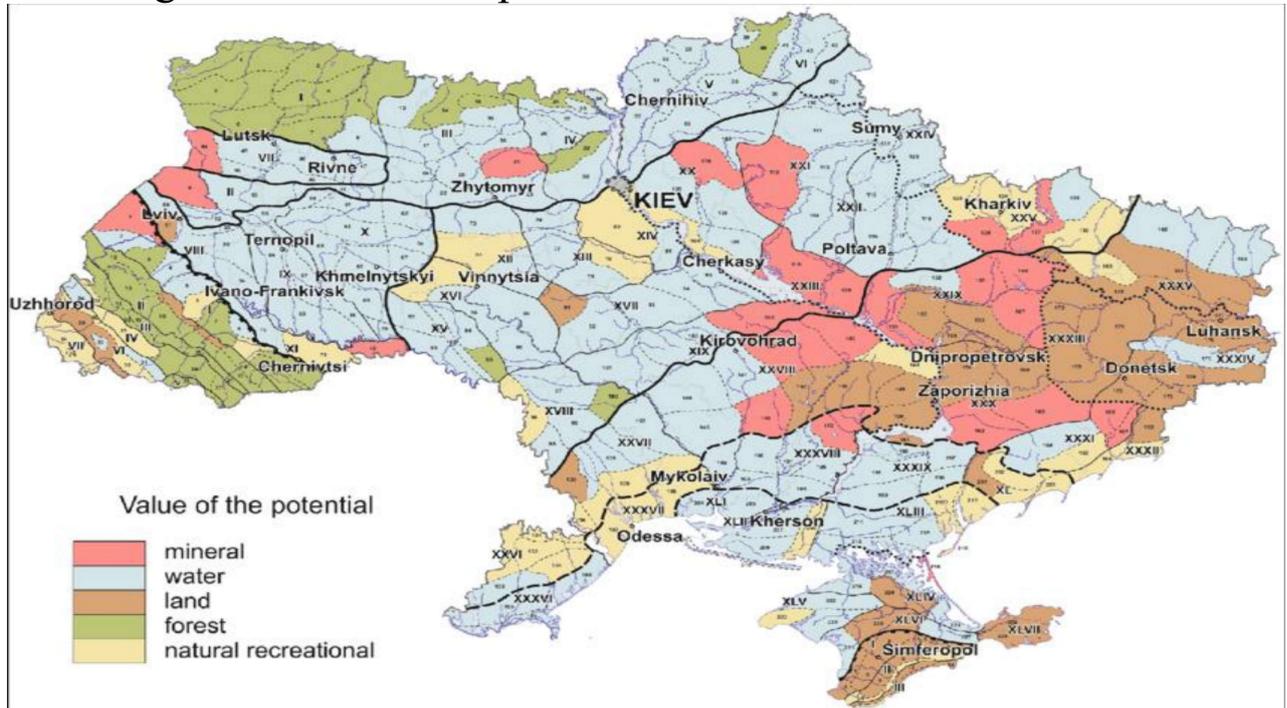
features (temperature, precipitation, humidity) and for combinations of them at the earth's surface.



They can show the amount of snow or rain an area receives or the average number of cloudy or sunny days. These maps normally use colors to show different climatic areas.

## Economic or Resource Maps

An economic or resource map display information based on specific types of economic activity or natural resources available in an area. The knowledge about the type of resources available will help to determine which types of industries will be able to thrive in that area. Different symbols or colors are used depending on what is being shown on the map.



For example, this map shows the availability of water, mineral, land resources as well as forest and natural recreational zones found in particular regions of our country.



## Road Maps

A road map is one of the most widely used map types. These maps display roads and transport links, major and minor highways as well as things like airports, city

locations and places of interest such as parks, campgrounds, and monuments. Major highways on a road map are generally shown in red and larger than other roads, while minor roads are a lighter color and a narrower line.

### **Exercise 2. Give equivalents for:**

економічна діяльність, бути схожим до фізичної карти, використовувати контурні лінії, показувати зміни в ландшафті, головні автошляхи, кордони країни, специфічні кліматичні зони, кількість снігу, види сільськогосподарських культур, цифрова революція, опис, поверхня землі.

### **Exercise 3. Answer the questions:**

1. What is a map? What types of maps do you know?
2. What does the political map show?
3. What information can one get from the thematic map?
4. How are the road maps used?
5. How are maps useful to us?

### **Exercise 4. Form nouns derived from the words in bold.**

**Translate the information below and get ready to speak about various symbols used in different types of maps.**

We use **-ance** (appear – appearance), **-ery/-ry** (slave – slavery), **-ion/-ation** (admire – admiration), **-ment** (move – movement) to form nouns.

### **Scale of a Map**

1. All maps are viewed as model ..... of the real world, that is why the features are reduced in size. (**REPRESENT**)
2. In other words, the scale of a map is the ..... between distance on a map and the corresponding distance on the ground (**RELATE**). For example, on a 1:100000 scale map, 1cm on the map equals 1km on the ground.
3. So, you will get a ..... of the distance between two places by means of a scale. (**MEASURE**)

## Symbols

Symbols are small pictures that stand for different features on a map. A symbol is usually similar to what it represents.

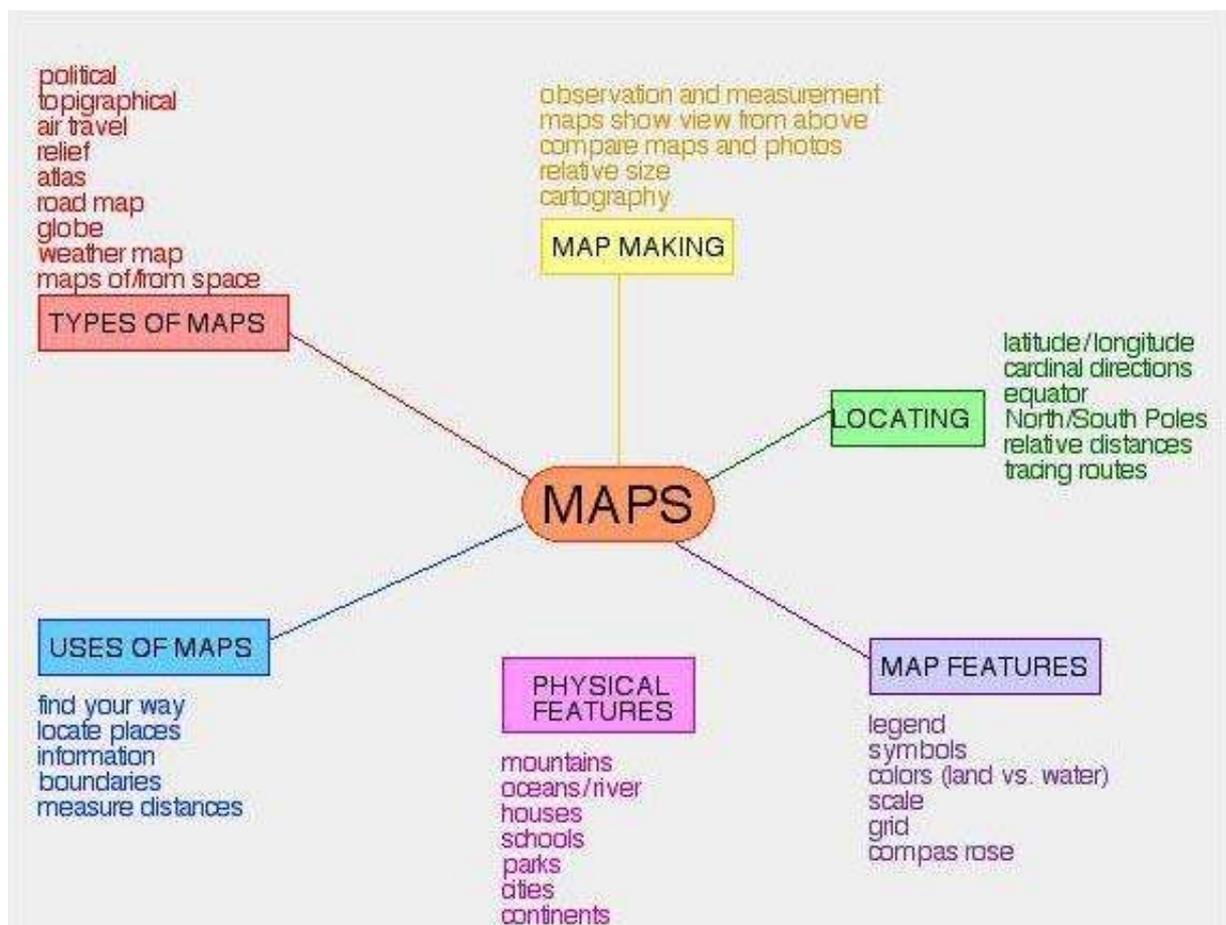
1. For example, a triangular shape is often used for ..... of a mountain. **(DENOTE)**

2. Black dots are ..... of cities, circled stars represent capitals. **(REPRESENT)** Different types of lines represent roads, highways and railways.

3. All the symbols for a map are often grouped together in a MAP KEY for ..... **(REFER).**

4. MAP KEY is an ..... of symbols in a box **(ARRANGE).** Their purpose is to make it easier for us to study and understand the map.

**Exercise 5. Speak about the role and uses of maps in today's society. The picture below will help you to reveal the topic.**





**1. The map that shows the weather of a specific area is called a .....**

- A. weather map
- B. road map
- C. population map
- D. political map

**2. Weather maps show average elevations in a specific area. True  
False**

**3. The purpose of the road map is .....**

- A. to show the history of an area.
- B. to It use boundary lines.
- C. to show elevations.
- D. to show the types of roads in an area.

**4. A ..... shows the elevation, vegetation, or some other physical features of the land.**

- A. population map
- B. physical map
- C. time-zone map

**5. The areas in which people live are depicted on a .....**

- A. population map
- B. physical map
- C. political map

**6. A person needs a .....for reading and understanding a map.**

- A. map key
- B. scale
- C. title

D. all of the above

**7. A round view of the world is represented by means of a (an)**

.....

A. globe

B. sketch

C. road map

D. none of the above

**8. How does a map scale help you to read a map?**

A. it helps to show what things stand for

B. it is a tool used for measuring distance

C. it tells what mountains and plains are on the map

D. it tells how heavy something is on the map

**9. The maps that can show types of things that are grown, raised or mined in a certain place are called .....**

A. population maps

B. physical maps

C. product maps

**10. This map uses boundary lines to show the history of an area.**

**It is a .....**

A. historical map

B. road map

C. political map

**11. The natural landscape features of Earth is shown on .....**

A. physical maps

B. road maps

C. resource maps