

Maps – Geography's Basic Tools

Maps

Maps have been used for over _____ years. They serve four purposes:

1. _____
2. _____
3. _____
4. _____

Maps help us:

- Visualize the _____ of our country, provinces, territories, and waterways (lakes, rivers, etc.)
- To _____ places and important features

What is a Map?

Map: _____

Cartographer: _____

A three-dimensional _____ is the only accurate method to represent the _____.

Using different types of maps, we can make _____ between several concepts.

Map Projections

Map Projection: _____

It is very difficult to project the globe on a flat surface – every projection will have _____

When looking at map projections, there are 4 key factors to compare:

1. _____: Are the areas represented on the map proportional to their area on the earth?
2. _____: Are the shapes of places accurate?
3. _____: Are measured distances accurate?
4. _____: Are angles of direction portrayed accurately?

Distortions on a map can greatly distort a person's _____ or perception about the _____.

If we perceive the world to 'appear' in a specific way, we will believe what we see. This can greatly alter, or skew, how accurately we view the world.

Types of Projections

Mercator Projection:

- Developed in 1569 by Gerardus Mercator
- Was widely used on wall maps, atlases, books, etc. until the 1990's
- Uses a _____ to assist in nautical navigation
- A type of map that is _____ for general use because of distortions of _____, _____, and _____ of land masses and oceans.
- _____ for _____ because compass bearings (_____) between points are correct.

Winkel Tripel Projection:

- Developed by Oswald Winkel in 1921
- Most widely used projection in the world
- _____ map projection for providing a _____ between _____, _____, _____ and _____.

Types of Maps

General Purpose Map:

- Provides many types of _____ on one map
- e.g. atlas maps, wall maps, road maps, etc.

Thematic Maps:

- map containing information on only _____ or _____
- e.g. weather map, landform regions map, population distribution map

Topographical Maps:

- _____ maps showing both _____ and _____ features
- Uses _____ to show a variety of features

Geotechnology – Digital Maps:

- Many maps exist in digital form in computer programs (GIS), handheld devices (GPS), or on various websites such as Google maps, Google earth, map quest, etc.