



# Geography of Canada

## Maps and Map Projection



### Maps

- A **map** is a representation of the Earth.
- Maps help to simplify the world by using **symbols** and **colours** to represent the features of an area.
- The maker of a map known as a **cartographer** must decide what features to include.
- Maps have been used for thousands of years for exploring, determining location and calculating distance or direction of travel.



## Map Projection

- Is created when features of a globe are transferred onto a flat surface.
- All maps have some form of distortion.
- Examples of distortions include:
  - ✦ Size
  - ✦ Shape
  - ✦ Distance
  - ✦ Direction



## Common Map Projections

### **Mercator Projection**

- Preserves direction, therefore is suitable for navigation.

### **Equal-Area Projection**

- Preserves the size and shape of countries.

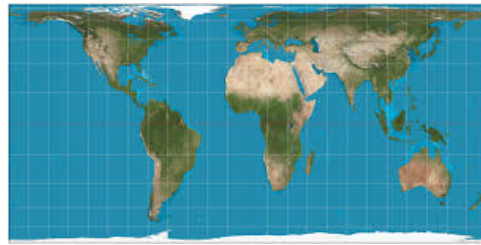
### **Winkel-Tripel Projection**

- A compromise between all map types by providing a balance between size, shape, distance and direction.



## Common Map Projections

**Mercator Projection**



**Equal Area  
Projection**



**Winkel-Tripel  
Projection**