

Name _____ Date _____

Map Projections

Directions:

- Go To:
<http://www.nationalgeographic.com/features/2000/exploration/projections/index.html>
- Enter Round Earth, Flat Maps
- Read the page and complete the Tables below.

Type of Projection	Used For	Problems
Planar		
Conic		
Cylindrical		

Map Objective	Useful for	Problems or Distortions	Called
Preserve Shape			
Preserve Area			
Focus on distance			
Focus on direction			

Map Tool	Use or Purpose
Centering	
Interruptions	
Latitude and Longitude	Parallels Meridians
Tissot's indicatrix	

Directions:

- Go To:
<http://www.nationalgeographic.com/xpeditions/hall/index.html?node=20>
- Click on the global projector and view each type of map projection and fill in the chart below.

Name	Advantages	Drawbacks	Useful For/To	Type
Mercator				
Robinson				
Polar				

Directions:

- GO TO:

http://www.colorado.edu/geography/gcraft/notes/mapproj/mapproj_f.html

Read Introduction and Complete Tasks below.

1. What is the result of attempting to project the Earth's Surface on to a flat surface?
2. Complete the Chart Describe the key characteristic of each type of map.

Map Focus	Characteristics
Conformality	
Distance	
Direction	
Scale	
Area	

Task: Imagine you are cartographers who have been asked to make maps for several clients with very different needs. Explain which projection you would use for each of the following clients. Explain how that projection would be best suited to the need of the client. Use your notes and your atlas as a reference

- A company that produces geography textbooks
- An adventure travel company that is sponsoring an expedition to the North Pole and needs maps for the expedition
- A nonprofit organization that is mapping the world's population
- A company that makes road atlases
- A sailboat manufacturer that wants to expand its product line into the map business