

**Chapter 1 : READ for Information**

**Directions:** Read and highlight pp.16-18 :

1. Define: oblate spheroid.

2. List 4 ways we know the Earth is a sphere

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. **Matching**

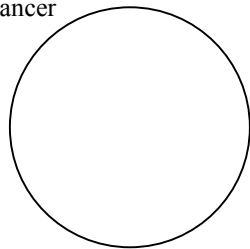
- |                   |                           |
|-------------------|---------------------------|
| _____ lithosphere | A. Liquid sphere          |
| _____ atmosphere  | B. Gas sphere             |
| _____ hydrosphere | C. Solid sphere           |
| _____ troposphere | D. low part of atmosphere |

**Read and highlight pp.20-23 :**

4. Explain the coordinate system that is commonly used to find location on the Earth

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. On this model of the Earth, draw and label: Equator, Prime Meridian, latitude, longitude, Arctic , Antarctic, Capricorn, Cancer



5. Max latitude \_\_\_\_\_ Max longitude \_\_\_\_\_

6. In detail... explain how latitude can be determined in the Northern Hemisphere

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7. How can the Polaris be found during any month using other stars- draw a picture & label.

8. How can altitude be found with an astrolab???

\_\_\_\_\_  
\_\_\_\_\_

9. What is our system of clock time based on?

\_\_\_\_\_  
\_\_\_\_\_

10. What is the rate of rotation of the Earth (degrees per hour) \_\_\_\_\_

11. List the steps needed to calculate longitude, using time(s)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

12. If it is 6 AM locally and noon GMT- what is the longitude????????? Show all work

\_\_\_\_\_  
\_\_\_\_\_

**Read and highlight pp.25-33**

13. What does 1: 24 000 mean? \_\_\_\_\_

14. Define: Field - \_\_\_\_\_

Isoline- \_\_\_\_\_

15. Paraphrase the 5 topographic contour rules ...

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

**From map p. 22- don't forget units !**

16. contour interval \_\_\_\_\_ 17. elevation 1: \_\_\_\_\_

39. Highest elevation: \_\_\_\_\_ 19. elevation 5: \_\_\_\_\_

20. Distance of Pleasantville Road: \_\_\_\_\_

21. Distance from 1 to 5: \_\_\_\_\_