Astronomy Discovery Sheet #1

The Earth

Creating a globe with great circles

With a small Styrofourn spinore (about the size of a baseball), do the following

- The Axis. Carefully push a (brass) red through the sphere. This represents the axis of the earth.
- The Equation. Place a orange rubber band around the upbote that represents the equator.
- Four Location. I will tell you what angle above the equator to place a thumbrack. This represents where you are on the curtis.
- The centendra's Horizon. From your location on the sphere, place a purple rubber band to represent the horizon (from the perspective of being for above your location).
- The Zenith Circle. Place a proon rubber hand that represents the zenith circle.
- The Meridian Circle. Place another rubber band that represents the meridian circle.

(Duestions:

- What is the angle between the axis and the borizon?
- What is the angle between the axis and the equator?
- What is the angle between the horizon and the registh circle?
- 4. What is the angle between the horizon and the meridian circle?
- What is the angle between the meridian and zenith circles?
- What is the angle between the horizon and the equator?
- 7. What is the angle between the renith circle and the equator?
- 8. What is the angle between your location and the equator?
- What properties have you noticed about these angles?
- 10. Spin the globe on its axis. Describe carefully what happens to the
 - (a) equator: (b) your focution:
 - (c) the horizon; (d) the zenith circle;
 - (e) the meridian circle.

- 11. Now go outside. Look at the celestial sphere. As with your Styrofoam globe, imagine the equator, the horizon, the mendian, and the renith circle relative to your location on the earth. Now, in imagination, extend these four circles from the earth onto the celestial sphere.
 - Describe where the axis of the earth is tassuming that it is an infinitely long line) relative to your position.
 - Describe where the zenith circle (on the celestial sphere) is relative to your position on the earth.
 - Describe where the meridian circle (on the orlestial sphere) is relative to your position on the earth.
 - Describe where the celestial equator is relative to your position on the earth.
 - e. As the earth spins on its axis (i.e., as the day progresses) how do the four circles move according to your perspective on earth?
 - f. What does move according to your perspective on earth?
- 12. Given what you have learned on this sheet, how would it be possible to look upinto sky and determine your latitude?

Discovery Problems In Earth Science

P.R. Hill, D. Lebel, M. Hitzman, M. Smelror, H. Thorleifson

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Effective Instructional Strategies Kenneth D. Moore,2009 Applying the latest research findings and practical classroom practices this book provides thorough coverage of the strategies and skills needed for effective teaching Learning

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fatality hangs over one who has consecrated his days to science If he would contribute to the advancement of science he must prepare himself first of all by a patient study of the thousands of details which constitute its technique he must learn the results obtained by numberless laborers whose researches tend toward the same aim He must master their conceptions and subject them to a new criticism This work so engrosses the attention of the investigator that he has little time left for casting a glance over the branches of science which are developing beside him Yet this necessity also weighs upon his soul If on the one hand he ought to study special problems on the other he cannot exempt himself from considering the ends set before special research by rising to a general outlook which shall command the view of a broader scientific basis This double necessity causes a conflict of tendencies and this conflict in our system of production results in a loss of time and of work from which the intellectual world suffers Most investigators if they are not rightly directed shut themselves up in a narrow circle and fall into a blind empiricism Others lose themselves in the region of confused generalities while a few finer spirits find the way for themselves and often must win again by fresh efforts that which they should have a right to expect as the outcome of the completed work of their companions in labor But the age of heroes that of Descartes or Leibniz whose genius opened all the doors of science seems closed forever The conquests of the past weigh upon the present and upon the future And if it is permissible to hope that a happier use of our intellectual powe Recording for the Blind & Dyslexic, ... Catalog **Resources in Education** ,1970 Research in Education .1970-05 of Books, 1996 **Publications in Geomorphology**, 1973 Journal of the American Geographical Society of New York American Geographical Society of New York.1904 El-Hi textbooks in print R. R. Bowker LLC,1983 **Proceedings and Transactions of the Queensland** Branch of the Geographical Society of Australasia ,1904 Queensland Geographical Journal, 1900 The Dravson **Problem** Alfred H. Barley,1922 Bulletin of the American Geographical Society American Geographical Society of New York.1914 Bulletin of the American Geographical Society of New York American Geographical Society of New York.1904 Congress of Arts and Science: Education. Religion Howard Jason Rogers, 1907

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