

EARTH SCIENCE REGENTS

Station Models Tutorial

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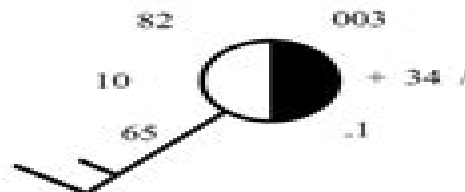
When you watch a weather report, the meteorologist describes the condition of the atmosphere at the present time, and makes a prediction about the future conditions that will exist in the atmosphere in the next 12 to 24 hours, and even for the next 5 days. Meteorologists get the data they need from *synoptic weather maps* - maps that show weather conditions from a number of weather stations around the country.

Individual weather stations report current conditions which are encoded on the map. This quick lab exercise will familiarize you with the information and method of encoding information on weather maps.

1. Make a list of all the conditions a meteorologist would include in a careful description of the current weather conditions. I've given you an easy one for a start.

Temperature _____	Cloud Cover _____	Visibility _____
Dewpoint _____	precipitation amount _____	
Wind Speed _____	barometric trend (change in atmospheric pressure) _____	
Wind Direction _____	Current Atmospheric Pressure _____	

2. Read Topics 13 and 14 on pages 509 and 510 in your text, and the "Weather Station Model" chart in the ESRT. Then, label what each feature on the station model drawn below represents:



3. There are probably a few things you thought might be included in the station model that aren't included here, and there are probably a few things here that you never thought of.

4. Use your text index to find, read about, and define the following terms:

dew point: **The temperature at which air is saturated with water vapor.** _____

relative humidity: **The extent to which air is saturated with water vapor; it is expressed as a percent.** _____

5. Find the long, narrow, vertical chart on your reference tables labeled "Pressure".

What is the highest pressure (in millibars) labeled on that chart? 1041 mb

What is the lowest pressure, in millibars, labeled on the chart? 965 mb

The two pressures above are the approximate high and low limits of atmospheric air pressures that are observed at the earth's surface. Meteorologists take advantage of the limited range of observed pressures to encode them on the weather map.

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Table of Contents Earth Science August 20regents Answer Key

1. Understanding the eBook Earth Science August 20regents Answer Key
 - The Rise of Digital Reading Earth Science August 20regents Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Earth Science August 20regents Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Earth Science August 20regents Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Earth Science August 20regents Answer Key
 - Personalized Recommendations
 - Earth Science August 20regents Answer Key User Reviews and Ratings
 - Earth Science August 20regents Answer Key and Bestseller Lists

5. Accessing Earth Science August 20regents Answer Key Free and Paid eBooks
 - Earth Science August 20regents Answer Key Public Domain eBooks
 - Earth Science August 20regents Answer Key eBook Subscription Services
 - Earth Science August 20regents Answer Key Budget-Friendly Options
6. Navigating Earth Science August 20regents Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Earth Science August 20regents Answer Key Compatibility with Devices
 - Earth Science August 20regents Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Earth Science August 20regents Answer Key
 - Highlighting and Note-Taking Earth Science August 20regents Answer Key
 - Interactive Elements Earth Science August 20regents Answer Key
8. Staying Engaged with Earth Science August 20regents Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Earth Science August 20regents Answer Key
9. Balancing eBooks and Physical Books Earth Science August 20regents Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Earth Science August 20regents Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Earth Science August 20regents Answer Key
 - Setting Reading Goals Earth Science August 20regents Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Earth Science August 20regents Answer Key
 - Fact-Checking eBook Content of Earth Science August 20regents Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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