

Name: **Brenda Vasquez Romero**

Relative Humidity

Define Vocabulary:

1. Condense: to change from a gas to a liquid
2. dew point: the temperature at which water vapor will condense onto a moist surface as fast as it evaporates from it.
3. evaporate: to change from a liquid to a gas.
4. humidity: the amount of water vapor in the air.
5. psychrometer: a tool used to measure relative humidity.
6. relative humidity: the amount of water vapor in a given sample of air compared with the maximum amount of water vapor that can exist in air of the same temperature.
7. saturated: filled with water.
8. water vapor: water in a gaseous state.
9. wet bulb depression: the temperature difference between the dry bulb temperature and the wet bulb temperature in a psychrometer.

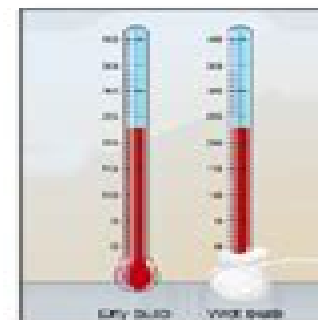
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. When you go outside on a hot summer day, usually your body begins to sweat. Why does your body do this: **Evaporating sweat is carrying heat away from the body.**
2. **Humidity** is the amount of moisture in the air. Do you think sweating cools you down more on a dry day or a humid day: **Sweating can be more effective on dry days.**

Gizmo Warm-up

When sweat **evaporates**, heat energy is removed from our skin and our bodies cool down. But the amount of **water vapor** air can hold is limited, so sweat can only evaporate if the air still has the capacity to hold more water. If the humidity is high, less water can evaporate from the sweat on your skin.

The amount of water vapor in the air compared to the maximum amount air can hold is known as **relative humidity**. In the *Relative Humidity* Gizmo, you will use a **psychrometer** to determine relative humidity. A psychrometer has two thermometers. The dry bulb thermometer measures air temperature. The second thermometer has



Relative Humidity Gizmo Answers

Guillaume Favre

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

Relative Humidity Gizmo Answers:

New Scientist ,2007 New Scientist and Science Journal ,2007 *Psychrometric Tables for Obtaining the Vapor Pressure, Relative Humidity and Temperature of the Dew-point* Charles Frederick Marvin,1915 *Psychrometric Tables for Obtaining the Vapor Pressure, Relative Humidity, and Temperature of the Dew Point* United States. Weather Bureau,1912

Psychrometric Tables (abridged) for Obtaining the Vapor Pressure, Relative Humidity, and Temperature of the Dew Point Charles Frederick Marvin,1977 *Psychrometric Tables for Obtaining the Vapor Pressure, Relative Humidity, and Temperature of the Dew-point* ,1912 **Psychrometric Tables for Obtaining the Vapor Pressure, Relative Humidity, and Temperature of the Dew-Point** Charles Frederick Marvin,2016-11-13 Excerpt from *Psychrometric Tables for Obtaining the Vapor Pressure Relative Humidity and Temperature of the Dew Point From Readings of the Wet and Dry Bulb Thermometers Sling psychrometer* This instrument consists of a pair of thermometers provided with a handle as shown in fig 1 which permits the thermometers to be whirled rapidly the bulbs being thereby strongly affected by the temperature of and moisture in the air The bulb of the lower of the two thermometers is covered with thin muslin which is wet at the time an observation is made The wet bulb It is important that the muslin covering for the wet bulb be kept in good condition The evaporation of the water from the muslin always leaves in its meshes a small quantity of solid material which sooner or later somewhat stiffens the mus lin so that it does not readily take up water This will be the case if the muslin does not readily become wet after being dipped in water On this account it is desirable to use as pure water as possible and also to renew the muslin from time to time New muslin should always be washed to remove sizing etc before being used A small rectangular piece wide enough to go about one and one third times around the bulb and long enough to cover the bulb and that part of the stem below the metal back is cut out Thoroughly wetted in clean water and neatly fitted around the thermometer It is tied first around the bulb at the top using a moderately strong thread A loop of thread to form a knot is next placed around the bottom of the bulb just where it begins to round off As this knot is drawn tighter and tighter the thread slips off the rounded end of the bulb and neatly stretches the mus lin covering with it at the same time securing the latter at the bottom About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www.forgottenbooks.com This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works *Tables for Obtaining the Temperature of the Dew-point, Relative Humidity, and Vapor Pressure* United States. Army. Signal Corps,1889 **Measurement of Relative Humidity by Means of a Thermoelectric Psychrometer and a Dew-point Recorder** United States. Army Service Forces. Climatic Research

Laboratory,1945

Relative Humidity United States. Weather Bureau,1953

Relative Humidity Gizmo Answers Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Relative Humidity Gizmo Answers**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Relative Humidity Gizmo Answers

1. Understanding the eBook Relative Humidity Gizmo Answers
 - The Rise of Digital Reading Relative Humidity Gizmo Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Relative Humidity Gizmo Answers
 - 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 a Relative Humidity Gizmo Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Relative Humidity Gizmo Answers
 - Personalized Recommendations
 - Relative Humidity Gizmo Answers User Reviews and Ratings
 - Relative Humidity Gizmo Answers and Bestseller Lists

5. Accessing Relative Humidity Gizmo Answers Free and Paid eBooks
 - Relative Humidity Gizmo Answers Public Domain eBooks
 - Relative Humidity Gizmo Answers eBook Subscription Services
 - Relative Humidity Gizmo Answers Budget-Friendly Options
6. Navigating Relative Humidity Gizmo Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Relative Humidity Gizmo Answers Compatibility with Devices
 - Relative Humidity Gizmo Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Relative Humidity Gizmo Answers
 - Highlighting and Note-Taking Relative Humidity Gizmo Answers
 - Interactive Elements Relative Humidity Gizmo Answers
8. Staying Engaged with Relative Humidity Gizmo Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Relative Humidity Gizmo Answers
9. Balancing eBooks and Physical Books Relative Humidity Gizmo Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Relative Humidity Gizmo Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Relative Humidity Gizmo Answers
 - Setting Reading Goals Relative Humidity Gizmo Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Relative Humidity Gizmo Answers
 - Fact-Checking eBook Content of Relative Humidity Gizmo Answers
 - 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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web although our aim is to give an understanding of latchup as it occurs in cmos switches similar principles apply to many other cmos devices latchup may be defined as the creation of a low impedance path between power supply rails as a result of triggering a parasitic device

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web in electronics a latch up is a type of short circuit which can occur in an integrated circuit more specifically it is the inadvertent creation of a low impedance path between the power supply rails of a mosfet circuit triggering a parasitic structure which disrupts proper functioning of the part possibly even leading to

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web latch up is a condition where a low impedance path is created between a supply pin and ground this condition is caused by a trigger current injection or overvoltage but once activated the low impedance

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web jan 14 2015 what is a latch up early cmos processes suffered a reliability concern that became known as latchup it resulted in circuits either malfunctioning or consuming excessive power and could be either inherent in the design or triggered by voltage spikes on i/o pads that could forward bias pn junctions they were connected to

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trigger a few factors include the internal circuit creating supply bounce on chip transmission line reflections or

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