#### Name: Brenda Vasquez Romero

# Relative Humidity

#### Define Vocabulary:

- 1. Condense: to change from a gas to a liquid
- 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
- psychrometer a tool used to measure relative humidity.
- 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.
- saturated: filled with water.
- 8. water vapor water in a gaseous state.
- 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.)

- 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.
- 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**

**Charles Frederick Marvin** 

## **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 Psychrometric Tables (abridged) for Obtaining the Vapor Pressure, Relative Humidity, and Bureau.1912 **Temperature of the Dew Point** Charles Frederick Marvin, 1977 **Psychrometric Tables for Obtaining the Vapor Psychrometric Tables for Obtaining the** Pressure, Relative Humidity, and Temperature of the Dew-point ,1912 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 Relative Humidity United States. Weather Bureau, 1953 Measurement of Relative Humidity by Means of a Thermoelectric Psychrometer and a

<u>Dew-point Recorder</u> United States. Army Service Forces. Climatic Research Laboratory, 1945 **PSYCHROMETRIC** TABLES FOR OBTAINING THE VAPOR PRESSURE, RELATIVE HUMIDITY, AND TEMPERATURE OF THE Psychrometric Tables for Obtaining the Vapor Pressure, Relative Humidity, and **DEW-POINT.** ,1900 Temperature of the Dew-Point: From Readings of the Wet and Dry Bulb Ther Charles Frederick Marvin, United States Weather Bureau, 2018-11-13 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public To ensure a quality reading experience this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy to read typeface We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant Psychrometric tables for obtaining the vapor pressure, relative humidity, and temperature of Humidity and Moisture: Fundamentals and standards. A. Wexler and W.A. **the dew-point** Charles Fred Marvin.1900 Wildhack, editors Arnold Wexler, 1965 Psychrometric Tables (abridged) for Obtaining the Vapor Pressure, Relative Humidity, and Temperature of the Dew-point from Readings of the Wet-and-dry-bulb Thermometers United States. Weather Psychrometric Tables for Obtaining the Vapor Pressure, Relative Humidity, and Temperature of Bureau, 1922 the Dew Point (1900) C. F. Marvin, 2014-08-07 This Is A New Release Of The Original 1900 Edition **PSYCHROMETRIC** TABLES FOR OBTAINING THE VAPOR PRESSURE, RELATIVE HUMIDITY, AND TEMPERATURE OF... THE **DEW-POINT** CHARLES FREDERICK. MARVIN, 2019 Measurement of Humidity M. J. Hickman, 1970 Relative **Humidity** United States. Weather Bureau, 1932 Psychrometric Tables for Obtaining the Vapor Pressure, Relative Humidity, and Temperature of the Dew-Point United States Weather Bureau, 2018-10-10 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public To ensure a quality reading experience this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy to read typeface We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

The book delves into Relative Humidity Gizmo Answers. Relative Humidity Gizmo Answers is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Relative Humidity Gizmo Answers, encompassing both the fundamentals and more intricate discussions.

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  - Chapter 2: Essential Elements of Relative Humidity Gizmo Answers
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  - Chapter 4: Relative Humidity Gizmo Answers in Specific Contexts
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