



PUSH.

"In Union is Strength."

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Notes on Meteorology.

PAPER 3.

Walter. Since our last meeting I have worked out several examples in scale transfer and I think this matter is fairly understood by me. What shall I do next?

Mr. B. The next thing demanding your attention is the proper location of your instruments. Employ a carpenter to make a proper screen for them. This screen is to protect them from storm and sunshine, and, at the same time permit the air to pass freely about them. Next select a grassy spot in the field or garden, as far as possible from buildings, fences or trees; and place firmly in the ground a good post, cutting it off at about three feet from the sod. Screw the screen to the top of the post; hang your thermometer inside the screen and you are ready to begin your observations.

Walter. Is the height of the instrument from the ground a very important matter?

Mr. B. Quite so. You will find by trial that near the grass and earth, the temperature of the air at night will be several degrees colder than a few feet above them.

Walter. What would be the best hours for reading the thermometer?

Mr. B. If you can attend to it three

times a day take 7 a. m., 2 p. m. and 9 p. m. If twice each day, take two hours of the same name as 8 a. m. and 8 p. m.

Walter. How can I find the mean temperature from my readings?

Mr. B. If you read at 7 a. m., 2 p. m. and 9 p. m., add the first and second readings to twice the third and divide the sum by 4. If at 8 a. m. and 8 p. m., add and divide by 2, or add the highest and lowest temperature, as shown by the maximum and minimum thermometers and divide by 2. In each of the three cases, the results will be nearly alike, and will be a close approximation to the mean temperature of the 24 hours.

The biggest cavern in the world is the Mammoth Cave, in Edmonson County, Kentucky. It is near Green River, about six miles from Cave City, and twenty-eight from Bowling Green. The cave consists of a succession of irregular chambers, some of which are large, situated on different levels, some of these are traversed by the navigable branches of the subterranean Echo river. Blind fish are found in its waters.

The seven hills of Rome are:—Aventine, Capitoline, Vatican, Celio, Esquiline, Palatine and Quirinal.