

# Make a Wet-Bulb Thermometer

## Materials:

- 1 dry-bulb thermometer (mercury free)
- 6-inch long piece of hollow cotton shoelace with the plastic tips cut off
- 1 twist tie

1. Insert the bulb of the thermometer about 1 inch into the shoelace.
2. Use the twist tie to attach the shoelace to the thermometer just above the bulb.
3. Stick at least 3 inches of the opposite end of the shoelace into a container of water.
4. Use the relative humidity chart to compare the air temperature (dry-bulb reading) with the wet-bulb temperature to determine relative humidity.

## Relative Humidity Chart:

		Dry Bulb Reading °F			
		99°	100°	101°	102°
Wet Bulb Reading	82°	49%	47%	45%	43%
	83°	51%	49%	47%	45%
	84°	54%	52%	50%	48%
	85°	56%	54%	52%	50%
	86°	59%	57%	55%	52%
	87°	62%	59%	57%	55%
	88°	65%	62%	60%	58%
	89°	68%	65%	63%	60%
	90°	71%	68%	65%	63%
	91°	74%	71%	68%	66%

