



# Weather tools: How to use the rain gauge



## STEP 1: HOW TO MEASURE RAINFALL

(A) Measure the widest width of the opening of the top of the funnel in centimeters and divide by 2 to get the radius.

(B) To calculate the **area of the top of the funnel**: Multiply the radius by 2 then multiply it by 3.142. The equation is as follows: **area =  $\pi r^2$**

(C) To measure the rainfall at different intervals, use the formula:  
**rainfall (mm) = area x (interval/10)**

## STEP 2: HERE IS AN EXAMPLE OF THE ABOVE STEPS

(A) If the diameter of the opening is 10cm  
**Radius:**  $10/2 = 5\text{cm}$ .

(B) **Area:**  $5 \times 5 \times \pi = 78.55\text{cm}$

(C) **To mark off 1mm of rain:**  $78.55 \times 1/10 = 7.855\text{ml}$  Measure 7.855ml into your gauge and make a mark at the bottom of the meniscus



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(A)



(B)

