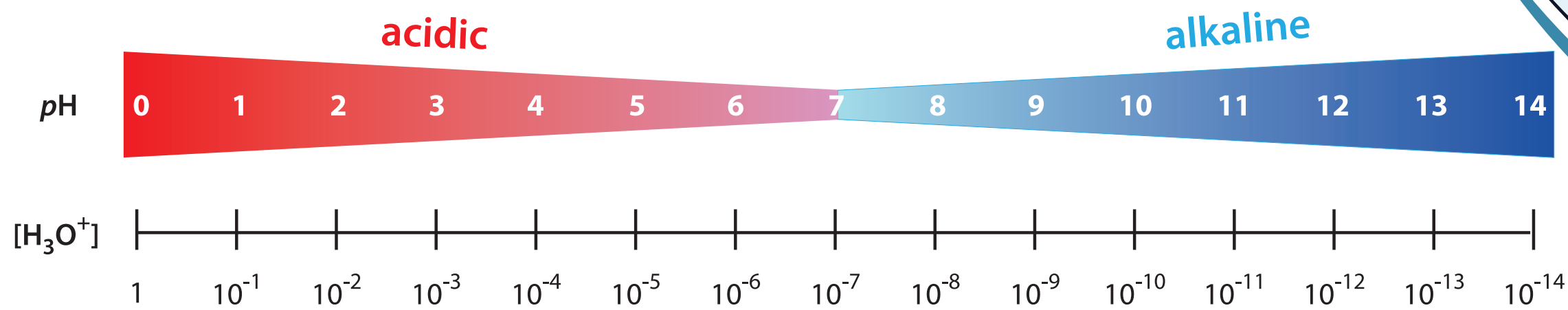


# pH Testing and Measurement Tools



Scan QR code or go to  
knowledge.carolina.com/labskills  
for videos and more!



## Test Papers

### pH paper

- Wide and short ranges
- Match color to pH chart

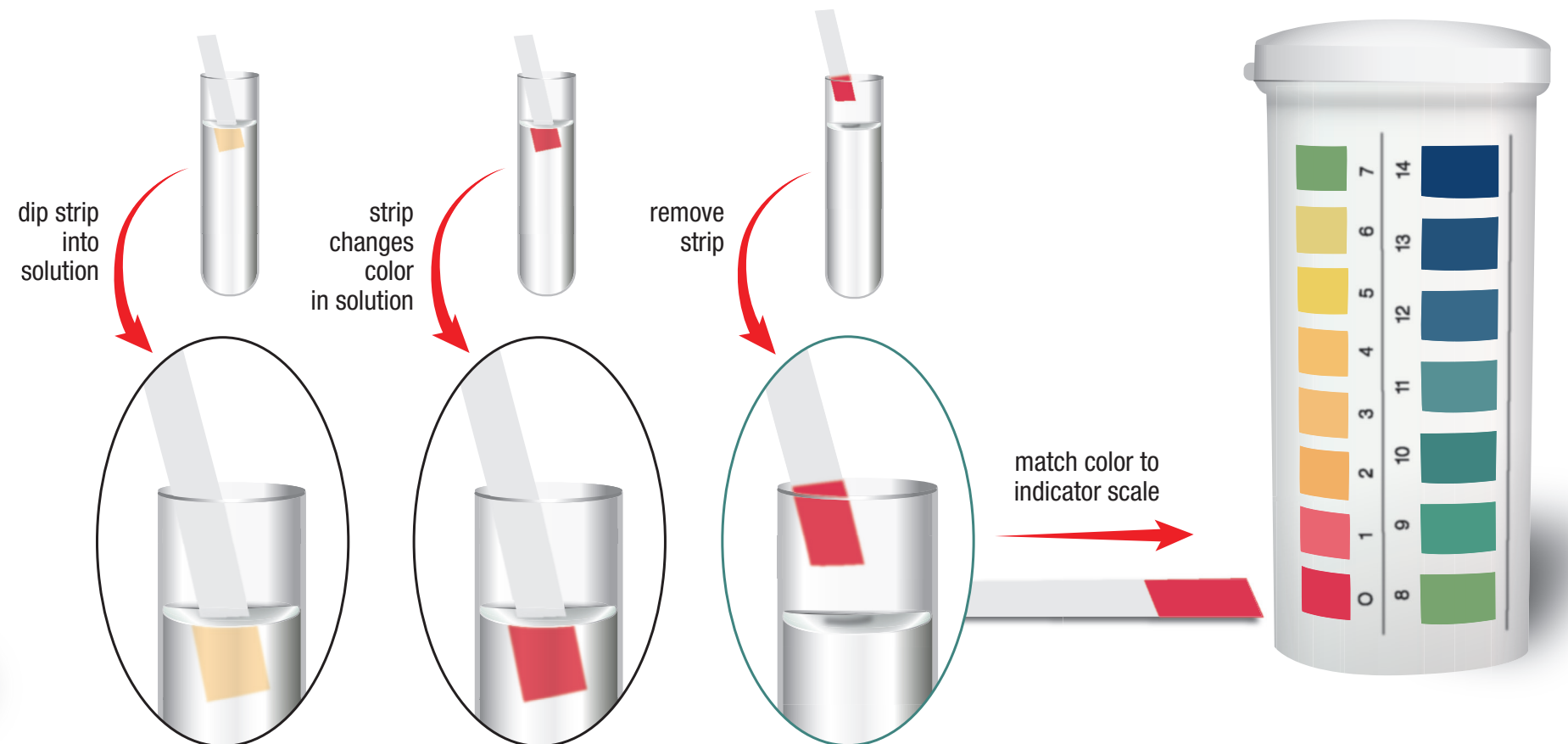
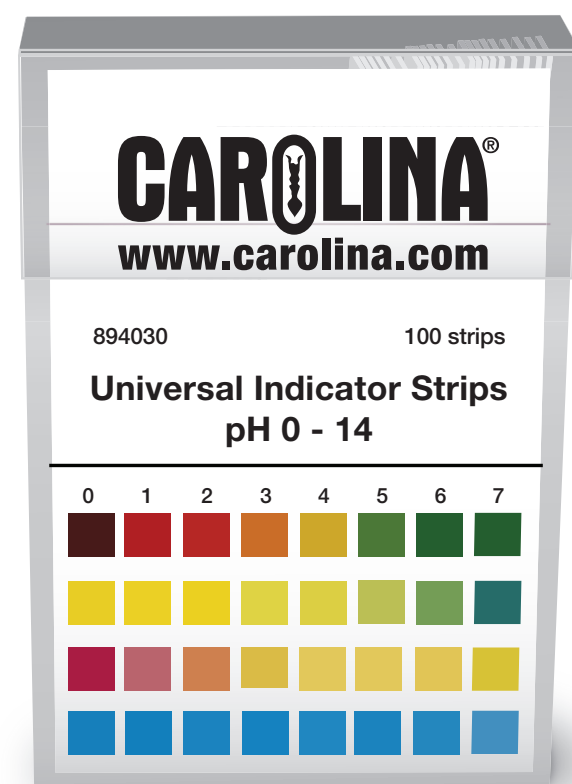
### Litmus paper

- Acidic, basic, or neutral?
- Only 3 colors

Base

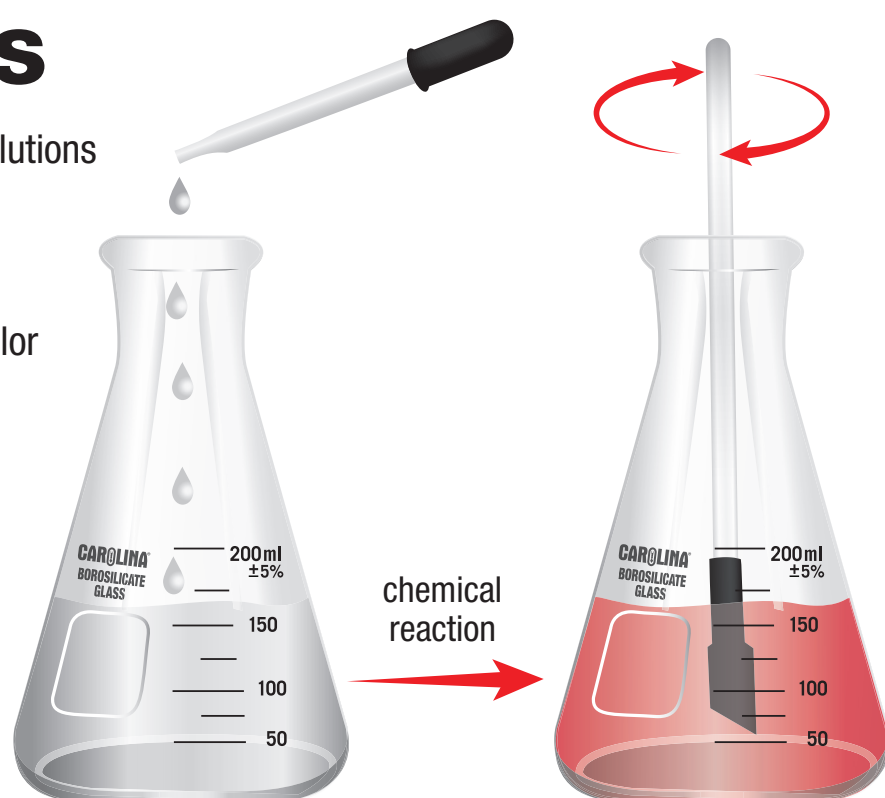
Neutral

Acid



## Indicators

- Add to clear and colorless solutions
- Defined pH ranges
- Distinct color changes
- Universal indicator:  
each pH unit is a different color



## Meters

- Place probe in the solution
- Instantly read pH
- Requires periodic maintenance  
and calibration



## Real World Connections



### Food Scientist

Responsible for safe food products and processes. pH adjustments help enhance flavor and taste, encourage the growth of helpful microorganisms, or prevent spoilage.



### Landscape Gardener

May use pH to determine which plants may thrive in a particular soil condition and to evaluate the availability of dissolved nutrients in the soil.



### Wastewater Treatment Operator

Adjusting pH is integral to the processes that control, contain, or remove contaminants in wastewater.