Choosing Indicators for a Rinse Decision

Scoring guide · one credit per question · review written work against each rubric

Choosing Indicators for a Rinse Decision

Question 1

Choice (2)

P is blue at pH 5 or above. Q is red below pH 7. Both observations hold from 5 up to, but not including, 7.

Question 2

A purple R result places the pH at or above 6, so it meets the decision boundary. A clear result places it below 6.

Question 3

Yellow with P requires pH below 5. Purple with R requires pH at least 6. No single pH satisfies those two readings. Q’s red reading only requires pH below 7, which can fit either reading on its own.

Question 4

For example, test indicator R on a known pH 5 sample. It should stay clear. Purple would show that R or the testing procedure fails under a known condition. Accept another known-pH check with the corresponding expected color.