

Water Quality Testing

Name _____

Date _____

You will be running three different water quality tests on the provided samples.

Water Test	Information	Safe Levels for Living Organisms
pH	Scale of 1 to 14; pH=7=neutral; pH<7= acid; pH>7= base	6.5 to 9
Turbidity	Turbidity is a measure of the clarity of water and is an indicator of water quality.	<5 NTU drinking water; <1 NTU for chlorination to be effective
Dissolved O ₂	An adequate concentration of dissolved oxygen is important for aquatic life.	Class AA - Extraordinary > 9.5 mg/l Class A -Excellent > 8.0 mg/l Class B - Good > 6.5 mg/l Class C - Fair > 4.0 mg/l

Question: How does water quality vary in different water samples?

You will be testing tap water, bottled water, RO water, and outdoor water to find how they differ.

Hypothesis: Prediction Chart

Water Source	pH: Acid, Neutral, or Base	Turbidity: <5 NTU	Dissolved O ₂ : Class AA, Class A, Class B, or Class C
Tap Water			
Bottled Water			
RO Water			
Outdoor Water			

Materials: Tap water

Bottle Water

RO water

Outdoor water

() Testing supplies

Procedures:

Procedures will be at your lab stations. Follow all lab procedures carefully and clean your area as directed.

Data Table 1:

	pH (A)	Turbidity (B)	Dissolved O ₂ (C)
Tap Water			
Bottled Water			
RO Water			
Outdoor Water ()			

Use Data Table 1 to answer the following questions in complete sentences.

How does pH vary between tap, bottled, RO, and outdoor water?

How does turbidity vary between these samples?

How do dissolved O₂ levels vary between these samples?
