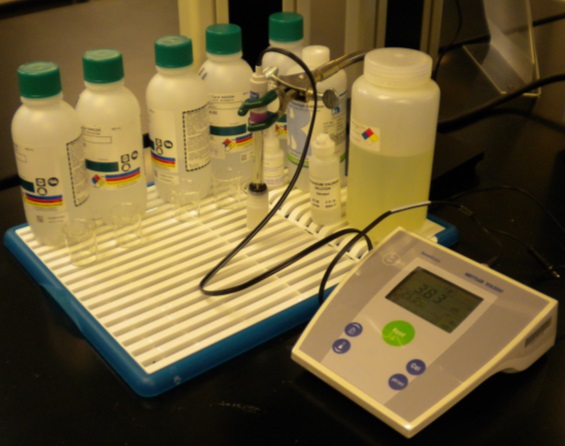
**Mettler pH Meter**

Mettler pH Meter

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| Potential Hazards while performing these activities | |
| Electrical Hazard | This equipment contains electrical units that may come into contact with skin or liquids. |
| Chemical Hazard | This equipment is used near potentially hazardous chemicals. |
| Corrosive Hazard | This equipment is used for measuring acids and bases. |
| Chocking Hazard | Because liquids are agitated, dangerous fumes may be released. Use of a fume hood may be required. |
| Slip Hazard | Liquids from the unit may fall on the floor, causing slippery conditions. |

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| Preventions to reduce exposure to hazards: | |
| Eye Protection | Wear safety glasses while operating. |
| Protective Gloves | Wear appropriate gloves for chemical usage. |
| Non-Slip, Closed Shoes | Wear non-slip, closed shoes to avoid spills. |
| Read Manual | Become familiar with this guide before operating. |

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| **Note**:   * Make sure the calibration buffer range includes the pH of the samples. * The slope is automatically calculated after each buffer. Make sure the slope is >95%. |

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| Setup Steps | Pictures |
| 1. Setup the base and ensure the arm is centered. |  |
| 1. Ensure the electrode is plugged into the socket. | E:\DCIM\101NIKON\DSCN1447.JPG |
| 1. Ensure power supply is plugged in. |
| 1. Turn the unit on. | E:\DCIM\101NIKON\DSCN1435.JPG |
| Operation | Pictures |
| 1. Decide if manual or automatic endpoints will be used. Hold READ to switch from manual endpoints to automatic endpoints and vice versa. The A =Automatic endpoint. The radical without the A =Manual endpoint. | E:\DCIM\101NIKON\DSCN1432.JPG |
| 1. Remove cap from electrode. | E:\DCIM\101NIKON\DSCN1449.JPG |
| 1. Rinse electrode with de-ionized water. |  |
| 1. Place electrode in pH 7 buffer and stir. | E:\DCIM\101NIKON\DSCN1450.JPG |
| 1. Press Start Calibration. Wait until the screen stops blinking if using the automatic endpoint. Press READ again if using the manual endpoint. |  |
| 1. Rinse with de-ionized water and wipe with a kim wipe. | E:\DCIM\101NIKON\DSCN1452.JPG E:\DCIM\101NIKON\DSCN1453.JPG |
| 1. Place electrode in the next pH buffer for calibration. |  |
| 1. Repeat steps 5 and 6 for a 3-point calibration. |  |
| 1. Make sure the slope reads 95-105%. |  |
| 1. Rinse with de-ionized water and wipe with a kim wipe. Place electrode in sample. The pH meter will automatically start reading the pH for the sample after the 3-point calibration so work quickly. Press Read for manual mode. |  |
| 1. When finished, remove and rinse electrode with de-ionized water. Place electrode back into the filling solution and recap. | E:\DCIM\101NIKON\DSCN1430.JPG |