# Handout 7—Survey: Physical Properties

<table>
<thead>
<tr>
<th>Date:</th>
<th>Time:</th>
<th>Air Temperature:</th>
</tr>
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<tbody>
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Team-Member Names:

Stream Name:

Stream Location:

Weather Conditions:  
- [ ] Clear  
- [ ] Cloudy  
- [ ] Raining  
- [ ] Other: ___________________

## Temperature

Water Temperature: ________°F  
Convert to Celsius using the following equation: \(( ________°F - 32 ) \times \frac{5}{9} = ________°C\)  
Factors affecting water temperature:  
____________________________________________________________________________________

## pH

pH: _______________

The water is:  
- [ ] Acidic  
- [ ] Neutral  
- [ ] Basic (Alkaline)  

Factors affecting pH:  
____________________________________________________________________________________

## Dissolved Oxygen

Dissolved Oxygen: _______________ ppm (mg/L)  
Factors affecting dissolved oxygen:  
____________________________________________________________________________________

## Flow

Width (W): ______________ meters (m)  
Average depth (D): ______________ m  
Time the cork traveled two meters: ___________ seconds (s)  
Calculate velocity (V) by entering the time above into following equation:  
\[
\frac{2 \text{ meters}}{____ \text{ seconds}} = \text{ ________ m/s}
\]  
Calculate flow using the following equation:  
\[
W \times D \times V = \text{ ________ m} \times \text{ ________ m} \times \text{ ________ m/s} = \text{ ________ m}^3/\text{s}
\]