Name: $\qquad$
Chapter 10

## Bond Formulas:

Current Yield $=\frac{\text { Annual Interest }}{\text { Market Price }}$



## Yield to Call $=\frac{\text { Annual Interest }+\frac{\text { Call Price }- \text { Market Price }}{\text { Number of Years to Call }}}{\text { Call Price }+ \text { Market Price }}$

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## Taxable Equivalent Yield (Fed only) $=\frac{\text { Municipal Bond Yield }}{1.0-\text { Federal Marginal Tax Bracket }}$

Taxable Equivalent Yield $($ Fed $\&$ State $)=\frac{\text { Municipal Bond Yield }}{1.0-[\text { Fed Tax Bracket }+(\text { State Tax Bracket } *(1.0-\text { Fed Tax Bracket }))]}$

The taxable equivalent yield (Fed \& State) assumes that the investor is itemizing deductions on their Federal taxes. Since most investors who buy tax-free municipal bonds are high-net worth or high-income investors and almost always itemize deductions on their tax returns, this is normally a valid assumption.
$\begin{aligned} \text { Bond Price } & =\text { Present Value of Interest Income }+ \text { Present Value of Repayment of Principal } \\ & =\text { Annual Interest } * \text { present value of stream factor }+ \text { Par Value * present value of lump sum factor }\end{aligned}$
(Need to use: Present Value of a Stream of Payments [right table] and Present Value of a Lump Sum [left table])

