

## Appendix 1 : Notes

- The formula for current yield is defined by dividing the dollar amount of the coupon rate by the current price.
- $\mathrm{CY}=$ Annual interest payment / Current Bond Price


## WHY IT MATTERS:

- The important thing to note here is that for most fixed rate bonds, the stated coupon rate will remain the same (in this case, $3 \%$ ).
- However, as the prevailing level of interest rates changes over time, the return that investors will require (the current yield) in order to hold a specific bond will fluctuate.
- As a result, investors will send bond prices higher or lower until the current yield on that bond is equivalent to other securities with similar characteristics.


## General Formula

$$
\begin{aligned}
& \text { Current Yield }(C Y)=\frac{\left(C+\frac{(F+P)}{n}\right)}{2} \\
& \hline C \text { = Coupon / Interest Payment } \\
& \hline n=F \\
& \hline \text { = years to maturity }
\end{aligned}
$$

## Appendix 2: Notes

- Yield to Maturity (YTM), expressed as an annual rate, is the overall rate of return to a bond investor who buys a bond today at market price, with the assumption that:
the bond will be held to maturity; and
all coupon and principal payments will be made on schedule.
- Bonds trade on the open market, so the actual yield an investor receives if they purchase a bond after its issue date (the "yield to maturity") is different than the coupon rate.
- The calculation for YTM is complex because it splits the price of a bond into 2 components:
The Present Value (PV) of the bond's coupon payments; and The Present Value (PV) of the bond's par or face value.
- Most people use a calculator for this one because of the complexity!!

WHY IT MATTERS:

- YTM allows investors to compare a bond's expected return with those of other securities. Understanding how yields vary with market prices (that as bond prices fall, yields rise; and as bond prices rise, yields fall) also helps investors anticipate the effects of market changes on their portfolios. Further, YTM helps investors answer questions such as whether a 10-year bond with a high yield is better than a 5 -year bond with a high coupon.

