

General Formula		
Current Yield (C	Y) = $\frac{\text{Annual Interest}}{\text{Current Bond Pi}}$	Payment rice
EXAMPLE 1:	EXAMPLE 2:	EXAMPLE 3:
AT PAR BOND	DISCOUNT BOND	PREMIUM BOND
• \$30 Interest payment	• \$30 Interest payment	• \$30 Interest payment
• Bond Price = \$1000	• Bond Price = \$950	• Bond Price = \$1100
CY = 30/1000 = 3.0%	CY = 30/950 = 3.16%	CY = 30/1100 = 2.73%

## Appendix 1 : Notes

- The formula for *current yield* is defined by dividing the dollar amount of the coupon rate by the current price.
  - 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** (F + P)C + n 2 Current Yield (CY) = (F + P) 2 = Coupon / Interest Payment = Face Value С F = years to maturity = Price Ρ n

Appendix 2

## 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.