## E-workbook: Financial Mathematics Edition 2

Introduces the mathematical tools that are used in finance and develops a command of business calculations by providing unlimited practice of real world applications. The algebraic formulas of discrete financial mathematics are revealed, explained and used directly to perform calculations. The purpose of this e-workbook is to facilitate a strong understanding of financial mathematics and its application to a wide range of transactions.

## Fundamental concepts

- Concepts of risk and return
- The time value of money
- Positioning of cash flows on a timeline


## Simple interest and simple discount

- Calculating the amount of simple interest
- Calculating the number of days between dates
- Future value at simple interest
- Present value at simple interest
- Finding the interest rate and time period
- Promissory notes at simple interest
- Promissory notes at simple discount


## Compound interest

- Nominal, effective and equivalent rates
- Future value at compound interest
- Present value at compound interest
- Finding the interest rate and time period
- Equations of value
- Changing interest rates


## Annuities

- Future value of an ordinary annuity
- Present value of an ordinary annuity
- Present value of a deferred annuity
- Present value of a perpetuity
- Finding the periodic payment


## More annuity problems

- Annuities due: valuation and periodic payment
- Finding the interest rate of an annuity
- Finding the term of an annuity
- Valuation under conditions of changing rates

