

YEAR 10 MATHEMATICS

TERM 4

- Unit Outline -



Course Description:

This unit incorporates the Western Australian Curriculum Mathematic content strands of *Number and Algebra*, *Measurement and Statistics and Probability*. The main focus of this unit is applying understanding of fractions, business interest rates and discounts and chance.

Course Outcomes:

By the end of this unit you should be able to:

- Solve fractional problems involving the four operations.
- Gain an understanding of interest rates and how they work.
- Able to calculate discounts.
- Calculate the probability of events occurring.

Course Organisation:

Student's activities will include:

- Student based investigations to discover rules, laws and concepts
- Hands-on/real life activities wherever possible
- Teacher directed instruction and explanation combined with student practise of a new skill
- Group and partner work to consolidate learning
- Using technologies to investigate, solve and present problems and skills

Course Timeline:

Wk	Activity	Assessment
1-3	Understanding Fractions <ul style="list-style-type: none">• Solving fraction problems using the four operations	In classwork Class tests
4-6	Understanding interest and discount calculations <ul style="list-style-type: none">• Simple interest• Compound interest• Calculating discounts	In class work Class test Week 5 Exam
7-10	Chance and Probability <ul style="list-style-type: none">• Understanding chances of events• Calculating	Practical activities Class test

Course Vocabulary:

- Fraction
- multiple
- simple interest
- discount
- likely
- Factor
- Compound interest
- Chance
- Unlikely
- Common denominator

- Assessment Outline -

Course Assessment:

Wk	Assessment type	Weighting	Marks achieved	Your Total
3 & 5	Tests/Exam	50%*		
1-10	All homework pieces combined	10%*		
1-10	Selected classroom work** In class investigations	25%*		
1-10	Classroom behaviour, attitude and contributions	15%*		

**specific marks to be advised and are subject to change*

*** Students may not be told which piece of classroom work is to be collecting for marking until the activity is complete.*

- **Please note the tests will make up 25% of the overall semester grade. Students will be allowed to take in 1 page, back and front, of notes into the exam.**

Specific Equipment required for each lesson:

- File/book to write in
- Pens, ruler,
- Scientific calculator