

2 LEARNING OUTCOMES & SUGGESTED CONTENT

The Mathematics learning outcomes have been selected from the Mathematics Syllabus Standard Course (Stage 5) and the General Mathematics Syllabus (Stage 6). They relate directly to consumer protection issues and credit. The learning outcomes provide a guide to what a student will learn. The table below indicates the relationship between the learning outcomes, the mathematical and thematic content suggested in the syllabus, and the activities and worksheets.

MATHEMATICS SYLLABUS STANDARD COURSE (STAGE 5)

Learning objective

Students will develop knowledge, understanding and skills in working mathematically

Learning outcomes

- Estimates results of calculations and checks the reasonableness of results
- Uses appropriate technology effectively to assist in the solution of problems
- Interprets and uses mathematical information presented in a variety of forms (such as diagrams, texts, tables and symbols)
- Uses appropriate problem solving strategies which include selecting and organising key information and breaking the problem into smaller parts.

THEME 6: MATHEMATICS IN THE COMMUNITY

Learning Outcomes

- The student:
 - Chooses and sequences arithmetic operations to solve problems
 - Selects and uses appropriate mental, written or calculator techniques to perform a variety of operations involving fractions, decimals, percentages and positive integers
 - Understands and uses different representations of numbers including fractions, decimals, percentages and words
 - Rounds numbers appropriately to a desired degree of accuracy
 - Interprets and uses written and graphical information to solve problems related to consumer arithmetic

Suggested thematic content

- Calculations involved in purchasing household items
- Different payment methods
- Budgeting
- Costs of buying a car
- Credit, loans and interest
- Read and interpret bills

Activities

- Worksheets A1, A2, A3, B1, B2 B3, B4
- Worksheets B1, B3, B4
- Worksheets A1, A2, A3
- Worksheet E2
- Worksheets D1, E1, E2, E3
- Worksheets C1, C2, C3

GENERAL MATHEMATICS (STAGE 6)

Learning Outcomes	Suggested thematic content	Activities
A student: Appreciates the importance of mathematics in her/his own life, and its power and usefulness in contributing to society (H1)	Comparison of different options for borrowing money	Worksheets D1, E1, E2
Integrates mathematical knowledge and skills from different content areas in exploring new situations (H2)	Calculation of repayments for flat-rate and reducing-balance loans	Worksheets E1, E2, E3
Makes predictions about the behaviour of situations based on simple models (H5)	Calculation of credit card payments, incorporating fees, charges, rates and interest-free periods	Worksheet D1
Interprets the results of measurements and calculates and makes judgements about reasonableness (H7)	Use of a spreadsheet to simulate home loans	Worksheet E3
Makes informed decisions about financial situations (H8)	Creation of formulae, which use fixed cell references, to access global variables for loan parameters including the principal, interest rate and repayment amount	Worksheet E3
Uses mathematical argument and reasoning to evaluate conclusions drawn from other sources, communicating his/her positions clearly to others (H11)		Worksheets B1, B3, B4, D1, E1

