Strand: Number & Algebra   **Unit:** Money & financial mathematics

Resources: Teacher-made lesson content, the internet

Vocabulary: coins, cents, dollars, notes, Venn diagram, two-way table, equations, rounding, percent, debit, credit, percent, GST, cost price, sale price, profit/loss, margin, profit margin, interest, balance, debit, credit, best-buys

Capacity	Capacity Breakdown (Content Descriptor and Standard)	Explanation (Elaboration - AusVELS)	Teacher-Designed Activity	LEARNING: Information (I have heard of this)	Knowledge (I understand and can explain this)	Know-how (I can do this on my own)	EVIDENCE Sample 1 Pre-test?	EVIDENCE Sample 2 Student Work	EVIDENCE Sample 3 Post-test	GOING FURTHER: Wisdom (I can teach others)	Evidence of Wisdom (I have taught others) Student Name
To understand and use money and financial mathematics to solve problems.	Recognise, describe and order Australian coins according to their value (ACMNA017)	* Showing that coins are different in other countries by comparing Asian coins to Australian coins	Venn diagram: Australian coins vs Asian coins								
		* Understanding that the value of Australian coins is not related to size	Draw the Australian coins in order of their value/worth								
		* Describing the features of coins that make it possible to identify them	Two-way table: Coin	Features								
	Students recognise Australian coins according to their value.		Achieved above								
	Count and order small collections of Australian coins and notes according to their value (ACMNA034)	* Counting collections of coins or notes to make up a particular value, such as that shown on a price tag	Draw the Australian coins and notes in order of their value/worth Create ten equations involving coins. Create five equations involving notes. Create ten equations involving notes and coins.								
		* Identifying equivalent values in collections of coins or notes, such as two five-cent coins having the same value as one 10 cent coin	5c+5c= 10c+10c= 50c+50c= $1 + $1 =								
	They find the total value of simple collections of Australian notes and coins.		Get a canteen lunch order list. Create a lunch-order and represent the notes and coins needed.								
	Represent money values in multiple ways and count the change required for simple transactions to the nearest five cents (ACMNA059)	* Recognising the relationship between dollars and cents	$=?c								
			Get a canteen lunch order list. Create a lunch-order. Add up how much it would cost. Write the Australian note that is enough to pay for the lunch order. Calculate the change required from that note. Repeat 4 more times.								
			Work through these files on the network: ACMNA059 & ACMNA080 - Represent Money Values - Using the correct sign.pptx ACMNA059 & ACMNA080 - Purchases - Word Problems (One & Two Step Problems) - Lesson.pptx ACMNA059 & ACMNA080 - Represent Money Values - Addition.pptx								
		..., and that not all countries use these denominations and divisions (for example Japanese Yen)	Venn diagram: Australian money vs Japanse Yen								
	They represent money values in various ways and correctly count out change from financial transactions.		Achieved above								
	Solve problems involving purchases and the calculation of change to the nearest five cents with and without digital technologies (ACMNA080)		ACMNA080 - Purchases - Rounding to the nearest 5 cents - Activities.docx ACMNA080, ACMNA107 & ACMNA128 - Purchases - Decimal Notation - Intro to.pptx ACMNA059 & ACMNA080 - Represent Money Values - Rounding to the Nearest 5c.pptx								
		* Carrying out calculations in another currency as well as in dollars and cents, and identifying both as decimal systems									
		* Recognising that not all countries use dollars and cents	Venn diagram: Australian vs Indian money								
	Students solve simple purchasing problems with and without the use of digital technology.		ACMNA080 - Purchases - Multiplication & Division Scenarios - Activities.docx ACMNA080 - Purchases - Profit, Loss or Break Even.pptx ACMNA128 - Decimals - Adding - Written Strategy - Columns - Lesson.pptx ACMNA128 - Decimals - Subtracting - Written Strategy - Columns - Lesson.pptx ACMNA080, ACMNA107 & ACMNA128 - Purchases - Adding Decimals - Make to 10 (Decimal Notation) - Lesson.pptx ACMNA080, ACMNA107 & ACMNA128 - Purchases - Adding Decimals - Using Column Strategy (Decimal Notation).pptx ACMNA080, ACMNA107 & ACMNA128 - Purchases - Time & Money Linked Problems (Decimal Notation) - Activities.dox ACMNA080, ACMNA107 & ACMNA128 - Purchases.pdf								
	Create simple financial plans (ACMNA106)	* Identifying the GST component of invoices and receipts	ACMNA073 - Place Value - Dividing by 10, 100 & 1000 - Moving The Decimal Point - Lesson.pptx ACMNA073 - Place Value - Multiplying by 10, 100 & 1000 - Moving The Decimal Point - Lesson.pptx ACMNA073 - Place Value - Multiplying & Dividing by 10, 100, 1000 - Lesson.pptx ACMNA106 - Creating Simple Financial Plans - Budgeting - Goods and Services Tax (GST).pptx								
		* Creating a simple budget for a class fundraising event	ACMNA106 - Creating Simple Financial Plans - Budgeting - Making Profit At A School Fair.pptx ACMNA106 - Creating Simple Financial Plans - Budgeting - Household Budgeting - Intro to.pptx ACMNA106 - Creating Simple Financial Plans - Budgeting - Buying Using A Budget ACMNA106 - Creating Simple Financial Plans - Budgeting - Staying Within - Backyard Blitz - Rich Task ACMNA106 - Creating Simple Financial Plans - Budgeting - Changing Rooms - Rich Task ACMNA106 - Creating Simple Financial Plans - Budgeting - Creating A Theme Park (To a Budget) - Rich Task.pptx								
	They explain plans for simple budgets.		Achieved above								
	Add and subtract decimals, with and without digital technologies, and use estimation and rounding to check the reasonableness of answers (ACMNA128)	* Extending whole-number strategies to explore and develop meaningful written strategies for addition and subtraction of decimal numbers to thousandths	ACMNA080, ACMNA107 & ACMNA128 - Purchases - Adding & Subtracting Amounts (Decimal Notation) - Activity.pptx ACMNA128 - Decimals - Adding - Written Strategy - Columns - Lesson.pptx ACMNA128 - Decimals - Adding - Written Strategy - Columns with Partitioning - Lesson.pptx ACMNA128 - Decimals - Subtracting - Written Strategy - Columns - Lesson.pptx								
		* Exploring and practising efficient methods for solving problems requiring operations on decimals, to gain fluency with calculating with decimals and with recognising appropriate operations	ACMNA080 & ACMNA128 - Purchases - Using Rounding For Efficient Calculations (Decimal Notation).pptx Upper bounds & Lower bounds: ACMNA099 - Estimate - Upper & Lower Bounds - Lesson.pptx http://www.mathgoodies.com/lessons/decimals_part2/estimate_products.html								
	Multiply decimals by whole numbers and perform divisions by non-zero whole numbers where the results are terminating decimals, with and without digital technologies (ACMNA129)	* Interpreting the results of calculations to provide an answer appropriate to the context	ACMNA129 - Decimals - Multiplying - Written Strategies - Grid Method & Mental Strategy - Lesson.pptx ACMNA129 - Multiplication - Written Strategies - Decimals x Whole Number - Lesson - SD.pptx ACMNA129 - Decimals - Multiplying - Written Strategies - Grid Method & Mental Strategy - Lesson - DD.pptx http://studyjams.scholastic.com/studyjams/jams/math/decimals-percents/division-of-decimals.htm ACMNA129 - Decimals - Dividing - Written Strategy - By Non-Zero Whole Nums - Bus Stop Method - Lesson.pptx ACMNA128 & 129 - Decimals - The 4 Operations - Written Strategy - Columns - Activity (Money)								
	Multiply and divide decimals by powers of 10 (ACMNA130)	* Multiplying and dividing decimals by multiples of powers of 10	ACMNA149 - Index Notation (Powers of) - Lesson.pptx ACMNA073 - Place Value - Dividing by 10, 100 & 1000 - Moving The Decimal Point - Lesson.pptx ACMNA073 - Place Value - Multiplying by 10, 100 & 1000 - Moving The Decimal Point - Lesson.pptx ACMNA073 - Place Value - Multiplying & Dividing by 10, 100, 1000 - Lesson.pptx								
	They make connections between the powers of 10 and the multiplication and division of decimals.		Achieved above								
	Students add, subtract and multiply decimals and divide decimals where the result is rational.		Achieved above								
	Investigate and calculate percentage discounts of 10%, 25% and 50% on sale items, with and without digital technologies (ACMNA132)	* Using authentic information to calculate prices on sale goods	ACMNA132 - Calculating Percentages of Amounts - Add 10% For GST.pptx ACMNA132 - Calculating Percentages of Amounts - Percentage Off Sale Items - Activity.docx ACMNA132 - Calculating Percentages of Amounts - Percentage Off Sale Items - Activity (Word Problems).docx								
	...and calculate common percentage discounts on sale items, with and without the use of digital technology.		Achieved above								
	Investigate and calculate 'best buys', with and without digital technologies (ACMNA174)	* Applying the unitary method to identify 'best buys' situations, such as comparing the cost per 100g	ACMNA174 - Investigating Best Buys - Lesson.pptx ACMNA174 - Basic Interest Calculations.pptx See your teacher for some shopping photos and activities								
	Round decimals to a specified number of decimal places (ACMNA156)	* Using rounding to estimate the results of calculations with whole numbers and decimals, and understanding the conventions for rounding	Round calculations to two decimal places from: ACMNA106 - Creating Simple Financial Plans - Budgeting - Making Profit At A School Fair.pptx								
	They compare the cost of items to make financial decisions, with and without the use of digital technology.		Rich task								