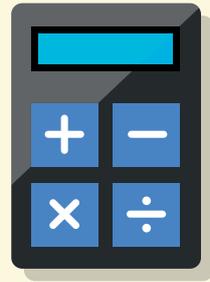




Percentages and GST



This sequence is intended as a framework to be modified and adapted by teachers to suit the needs of a class group.

Resources needed

- Goods and services tax (GST) – Video
- Sales, GST and profit – Worksheet
- Impact of GST – Investigation
- Using spreadsheets – Visualiser

Suggested activity sequence

Part A: What is GST?

- 1 Begin by playing the Goods and services tax (GST) video to give students an overview of GST.
- 2 Discuss how GST works for businesses that collect GST, including how they can get credits for the GST they paid on goods and services.

GST collected – GST credits
= Amount owed to the ATO.

Part B: Calculating GST

- 1 Explicitly teach students how to calculate GST from both the GST exclusive price and the GST inclusive price (that is working forwards and backwards) using a gradual release of

responsibility model. *Calculating GST at 10 percent – How-to-sheet* might be a helpful resource for students.

- 2 You might like to get students to complete a table like this one as a practice activity:

Price (excluding GST)	GST	Price (including GST)
\$30.00		
		\$30.00
		\$2,000.00
\$2,000.00		
		\$350.00
\$350.00		
\$90.00		
		\$90.00
\$45.00		
		\$45.00

- 3 Students complete part 1 of the *Worksheet*.



Part C: Investigating GST, profit and profit margins

- 1 As a class, read through part 2 of the worksheet. If necessary, use examples to demonstrate how to calculate profit, profit margins and percentage increase and decrease.
- 2 Display and explain how to use spreadsheets using the Visualiser.



- 3 Reinforce learning by modelling the process of setting up an excel spreadsheet using the following scenario. If you're all working together on this, everyone will need access to a computer with spreadsheet software.

You work in an outdoor store and one of your tasks is to price items. The store wants to sell its down jackets for \$118, beanies for \$11, hiking shoes for \$145 and backpacks for \$46. How much GST do they need to add to each one and what will the final price on the price tag be?

It might be useful for students to have a copy of *Making an Excel spreadsheet using GST as an example – How-to-sheet* before you start so they can follow along.

- 4 Students complete part 2 of the worksheet.
- 5 Walk students through the *Investigation* instructions, reminding them of the similarities to the problem you modelled.
- 6 Students complete the investigation. Students may benefit from working individually and/or in small discussion groups.
- 7 As a class, discuss students' findings.