

Teacher view Student view

Write linear equations to represent diagrams and patterns
SC 1. I can formulate information in a diagram as a linear equation

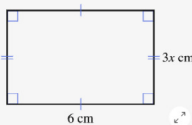
78% COMPLETED

- Introduction
- SC 1: I can formulate information in a diagram as a linear equation
- SC 2: I can formulate information in a pattern as a linear equation
- Lesson Review

Writing an equation for perimeter and area

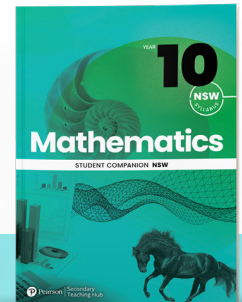
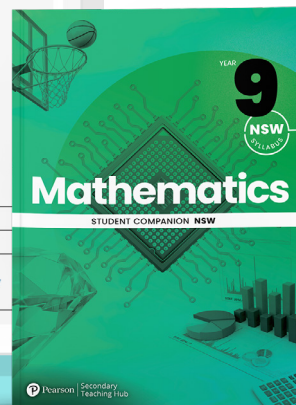
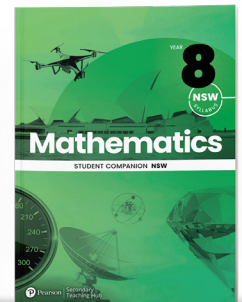
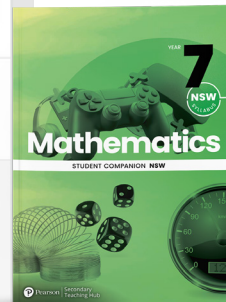
Worked example See it in a video Check your understanding

Write equations for the perimeter and for the area of the rectangle shown.



a. the perimeter of the rectangle

Thinking	Working
The perimeter is the sum of all the side lengths.	$P = 6 + 6 + 3x + 3x$
Simplify the expression and state the answer.	$P = 12 + 6x$ The perimeter of the rectangle is given by $P = 12 + 6x$ cm.



Pearson Secondary Teaching Hub

Fully aligned to the new NSW Mathematics syllabus for Stages 4 and 5.

Developed in consultation with educators from across Australia, *Secondary Teaching Hub* is an expertly designed resource that is unlike any other resource available to NSW mathematics educators right now. It features a **robust digital hub** as its foundation, offering digital content, assessment, videos, activities and more, all aligned to the new syllabus. The digital hub is complemented by printed **student companion books** and a library of trustworthy **downloadable resources** to deliver a complete teaching and learning solution for 7–10 mathematics in New South Wales.

🔗 Resources for flexible teaching and learning

Developed in consultation with educators from across Australia, *Secondary Teaching Hub* has been designed for classrooms that want to utilise digital and printed resources in a flexible way.

Secondary Teaching Hub provides access to:

A robust digital hub

- Discover a library of quality content, assessment, videos, activities and more, broken down into topics and lessons across stages 4 and 5 of the new NSW syllabus.
- Assign content from *Secondary Teaching Hub* directly to the LMS your students use, like Microsoft Teams or Google Classroom, no separate student logins required.
- Understand where your students are at with reporting dashboards and downloadable progress reports.

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- Complementary to the digital hub, providing balance between onscreen and offscreen learning.
- Designed to be a portfolio of learning for students to build on throughout the year.
- Great for flipped learning, active learning, homework, revision and more.

Downloadable resources

- For the resources that just make sense to use as downloads like teaching programs and worksheets.
- Easily accessible as digital versions and downloadables from relevant topics and lessons in the digital hub.

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Curriculum selection

Select which curriculum you want to show content for in your search results.

- NSW Syllabus
- Australian Curriculum v9.0
- Australian Curriculum v8.4
- Victorian Curriculum v2.0

NSW Syllabus

MA4-EQU-C-01

solves linear equations of up to 2 steps and quadratic equations of the form $ax^2=c$

Number and algebra > Equations

Your essential resource for NSW Mathematics in 2024

When your school adopts *Secondary Teaching Hub*, teachers are given free access to the digital hub and students can purchase their digital subscription and student companion books via Kookaburra Educational Resources.

ISBN	Secondary Teaching Hub components	Student price
9780655715894	Years 7–10 Mathematics Digital Hub (NSW)	\$50.00 ▶ Annual subscription
9780655715900	Year 7 Mathematics Student Companion (NSW)	\$30.00 ▶ Printed book
9780655715917	Year 8 Mathematics Student Companion (NSW)	\$30.00 ▶ Printed book
9780655715924	Year 9 Mathematics Student Companion (NSW)	\$30.00 ▶ Printed book
9780655715931	Year 10 Mathematics Student Companion (NSW)	\$30.00 ▶ Printed book