# Number and Algebra: Fractions and Decimals: **Decimal Place Value Puzzles**

#### **Australian Curriculum**

This lesson plan could be used to support the teaching and learning of the following Content Descriptions from the Australian Curriculum.

## Y6: Number and Algebra, Fractions and Decimals

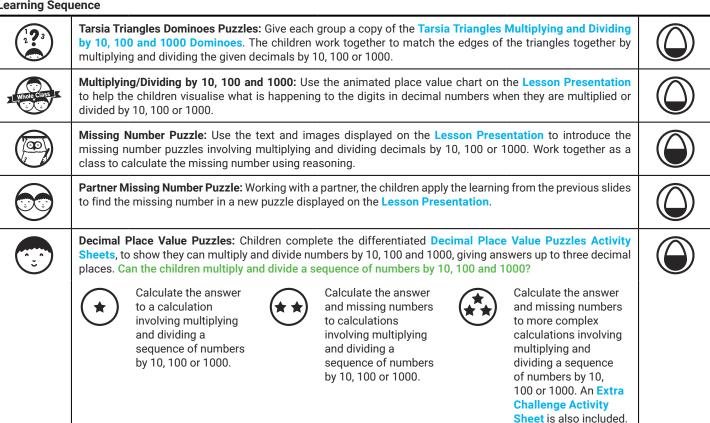
Select and apply efficient mental and written strategies and appropriate digital technologies to solve problems involving all four operations with whole numbers (ACMNA123)

Multiply and divide decimals by powers of 10 (ACMNA130)

Aim: To multiply and divide numbers by 10, 100 and 1000 to solve number puzzles.	Success Criteria: I can multiply and divide numbers by 10, 100 and 1000, giving answers up to three decimal places.	Preparation: Tarsia Triangles Multiplying and Dividing by 10, 100 and 1000 Dominoes – one per group
	numbers by 10, 100 or 1000 to solve a Activity Sheets – one per chil	Differentiated Decimal Place Value Puzzles Activity Sheets – one per child  Extra Challenge Activity Sheet – as required
Key/New Words: Decimal, fraction, tenth, hundredth, thousandth.	Resources: Lesson Pack	Place Value Circle Game Question Cards – one per class

Prior Learning: It will be helpful if children have experience identifying the value of digits in whole numbers and recognise tenths and hundredths in the context of money and measurement.

### **Learning Sequence**





Circle Game: Give each child a Place Value Circle Game Question Card and sit or stand in a circle facing inwards. During each round, a number statement will be shown on the Lesson Presentation. If the answer to the question on their card fits the statement, the children swap places.



#### **Explore**it

Quizit: Ask children to write their own questions involving decimal place value and then host a class quiz. Linkit: Link the use of decimal numbers to experiments in science involving measurements.

