

Let it Flow: a three-act maths activity

We are learning to identify good questions that we can ask to solve a problem.

Name: _____

Year: _____

Class: _____

					
	Pre-structural	Uni-structural	Multi-structural	Relational	Extended Abstract
	I have trouble identifying skills	I am able to identify isolated skills	I am able to describe and combine serial skills	...AND I am able to integrate these skills	...AND I am able to evaluate these skills
Curriculum Links					
General Capabilities: Numeracy <i>Estimating and calculating with whole numbers</i> L3 estimate a solution to a problem and then check the solution by recalling addition, subtraction, multiplication and division facts L4 solve problems and check calculations using efficient mental and written strategies	<input type="checkbox"/>	<input type="checkbox"/> I can IDENTIFY the different aspects required to solve a mathematical problem	<input type="checkbox"/> I can FOLLOW a process to solve a mathematical problem	<input type="checkbox"/> I can EXPLAIN an algorithm to solve a mathematical problem	<input type="checkbox"/> I can CREATE algebraic expressions from word problems involving more than one operation
General Capabilities: Critical and Creative Thinking <i>Inquiring – identifying, exploring and organising information and ideas</i> L3 pose questions to expand their knowledge about the world L4 pose questions to clarify and interpret information and probe for causes and consequences L3 select and clarify information from a range of sources L4 identify and clarify relevant information and prioritise ideas	<input type="checkbox"/>	<input type="checkbox"/> I can IDENTIFY a mathematical problem that could be investigated <input type="checkbox"/> I can FOLLOW a simple procedure which I have been provided	<input type="checkbox"/> I can LIST information I might need to successfully investigate a problem <input type="checkbox"/> I can COMBINE the information I have gathered to suggest a procedure to solve my problem	<input type="checkbox"/> I am able to FORMULATE questions which will allow me to seek the information I need <input type="checkbox"/> I am able to APPLY the information I have gathered in order to develop a procedure to solve my problem	<input type="checkbox"/> I am able to EVALUATE the information I have gathered to determine its effectiveness, and CLARIFY my information-seeking questions <input type="checkbox"/> I am able to GENERALISE my procedure to identify necessary information for similar problems

WA Proficiency Strands

YR 3 **Problem Solving** formulates and models authentic situations involving operations

YR 4 **Problem Solving** formulates, models and records authentic situations involving operations

YR 5 **Problem Solving** formulates and solves authentic problems using measurements

YR 6 **Problem Solving** formulates and solves authentic problems using measurements