

Capacity Matrix - Mathematics - Location/Mapping

Name:

AIM	Capacity	Year Level	Capacity Breakdown	Explanation	LEARNING			GOING FURTHER			
					Information (I have heard of this)	Knowledge ( I understand and can explain this) <small>Possible Student Tutorial (i.e. Using Doceri)</small>	Know-how (I can do this on my own)	EVIDENCE  (Maths book page number)	Wisdom  (I can teach others)	Evidence of Wisdom  (I have taught others)  <small>Student Name or Student Tutorial (i.e. Using Doceri)</small>	
To identify, develop and extend my knowledge of location	I can use my knowledge of location to solve problems	Foundation	I can describe position and movement  (ACMMG010)	* I can interpret the everyday language of location and direction, such as 'between', 'near', 'next to', 'forwards', 'towards'  * I can follow and give simple directions to guide a friend around an obstacle path and vice versa							
			I can use appropriate language to describe location.								
		Level 1	I can <b>give and follow directions to familiar locations</b>  (ACMMG023)	* I can understand that people need to give and follow directions to and from a place, and that this involves turns, direction and distance  * I can understand the meaning and importance of words such as 'clockwise', 'anticlockwise', 'forward' and 'under' when giving and following directions  * I can interpret and follow directions around familiar locations							
			I can use the language of direction <b>to move from place to place.</b>								
			I can <b>interpret simple maps</b> of familiar locations and <b>identify the relative positions of key features</b>  (ACMMG044)	* I can understand that I can use representations of objects and their positions, such as on maps, to allow us to receive and give directions and to describe place  * I can construct arrangements of objects from a set of directions							
		Level 2	I can identify and describe <b>half and quarter turns</b>  (ACMMG046)	* I can predict and reproduce a pattern based around half and quarter turns of a shape and sketching the next element in the pattern							
			I can interpret simple maps of familiar locations.								
		Level 3	I can create and interpret simple <b>grid maps to show position and pathways</b>  (ACMMG065)	* I can create a map of the classroom or playground							
			I can <b>match</b> positions on maps <b>with given information</b> and create simple maps .								
		Level 4	I can use simple <b>scales, legends</b> and directions to <b>interpret information contained in basic maps</b>  (ACMMG090)	* I can identify the scale used on maps of cities and rural areas in Australia and a city in Indonesia and describe the difference  * I can use directions to find features on a map							
			I can interpret information contained in maps.								
		Level 5	I can use a grid <b>reference system</b> to describe locations.	* I can compare aerial views of Country, desert paintings and maps with grid references							
			I can describe routes using <b>landmarks</b> and directional language  (ACMMG113)	* I can create a grid reference system for the classroom and use it to locate objects and describe routes from one object to another							
			I can use a grid reference system to locate landmarks.								
		Level 6	I can <b>introduce the Cartesian coordinate system using all four quadrants</b>  (ACMMG143)	* I understand that the Cartesian plane provides a graphical or visual way of describing location							
			I can use <b>ordered pairs of integers</b> to <b>represent</b> coordinates of points and locate a <b>point in any one of the</b> four quadrants on the Cartesian plane.								
		Level 7	I can assign ordered pairs to given points on the Cartesian plane.								