

GEOMETRY: LOCATION AND TRANSFORMATION


CURRICULUM THREADS

	Kindy	Pre-Primary	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
THREAD A LOCATION		Describe position and movement ACMMG010	Give and follow directions to familiar locations ACMMG023	Interpret simple maps of familiar locations and identify the relative positions of key features ACMMG044	Create and interpret simple grid maps to show position and pathways ACMMG065	Use simple scales, legends and directions to interpret information contained in basic maps ACMMG090	Use a grid reference system to describe locations. Describe routes using landmarks and directional language ACMMG113	Introduce the Cartesian coordinate system using all four quadrants ACMMG143
THREAD B TRANSFORMATION				Investigate the effect of one-step slides and flips with and without digital technologies ACMMG045	Identify symmetry in the environment ACMMG066	Create symmetrical patterns, pictures and shapes with and without digital technologies ACMMG091	Describe translations, reflections and rotations of two-dimensional shapes. Identify line and rotational symmetries ACMMG114	Investigate combinations of translations, reflections and rotations, with and without the use of digital technologies ACMMG142
				Identify and describe half and quarter turns ACMMG046			Apply the enlargement transformation to familiar two dimensional shapes and explore the properties of the resulting image compared with the original ACMMG115	

Suggested Dr Paul Swan Materials

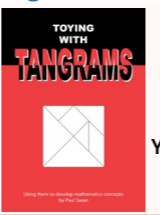
● Book
 ● Game
 ● Downloadable
 ● Video
 ● Manipulative Material
 ● Interactive Material
 ● Other

RECOMMENDED RESOURCE Years F -> 6




Australian Curriculum Mathematics: **Measurement and Geometry** Series by L. Marshall (2013): **Years F -> 6**

● [Toying With Tangrams](#)



Years 2 - 6

● [Geoboard Gems](#)



Years 3 - 6

First Steps: Space

Ch 3: KU 1 pg 12, KU 2 pg 26, KU 3 pg 38
 Ch 5: KU 1 pg 102, KU 4 pg 140, KU 6: KU 1 pg 158

First Steps: Space

Ch 3: KU 1 pg 12, KU 2 pg 26, KU 3 pg 38
 Ch 5: KU 1 pg 102, KU 2 pg 114, KU 3 pg 130, KU 4 pg 140
 Ch 6: KU 1 pg 158

First Steps: Space

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● Battleship

Other Helpful Sources

Develop positional language e.g: under, behind, between etc.	<p>First Steps: Space Ch 3: KU 1 pg 12</p> <p>● Rosie's Walk by Pat Hutchins</p>	<p>NZ Maths: Location Units of Work</p> <p>First Steps: Space Ch 3: KU 1 pg 12</p> <p>● A Lion in the Night by Pamela Allen</p> <p>● Bee Bot (Physical/App)</p>	<p>NZ Maths: Transformation Units of Work</p> <p>First Steps: Space Ch 3: KU 1 pg 12, KU 2 pg 26, Ch 5: KU 1 pg 102</p> <p>● My Map Book by Sara Fanelli</p> <p>● Barrier Games</p> <p>● Google Earth (Web/App)</p> <p>● APP: Block Builder 3D</p>	<p>● Are we there yet? by Allison Lester</p> <p>First Steps: Space Ch 3: KU 1 pg 12, KU 2 pg 26, Ch 5: KU 1 pg 102, KU 4 pg 140</p> <p>● Bee Bot (Physical & App)</p> <p>● Google Earth (Web/App)</p> <p>● Transformation Apps: Zentomino HD Lite, Geoboard by The Math Learning Center</p>	<p>● Location Apps: Google Earth (Web/App)</p> <p>● Transformation Apps: Symmetry Shuffle, Block Builder 3D, Geoboard by The Math Learning Center, TapTapBlocks, Tangram HD Lite</p>	<p>● Zoom by Istvan Banyai</p> <p>● Re-Zoom by Istvan Banyai</p> <p>● Location Apps: Google Earth (Web/App), Atlas of the World</p> <p>● Transformation Apps: Symmetry Shuffle, Block Builder 3D, TapTapBlocks, Tangram HD Lite</p>	<p>● Tangram Set</p> <p>● Location Apps: Google Earth (Web/App), Fleet Battle, Atlas of the World</p> <p>● Transformation Apps: Fragmental 3D Lite, Block Builder 3D</p>
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