GRADE 6 Shape and	Key Concepts in Geometry and	Sample Diagnostic Tasks	Sample Learning Tasks	Math Station Ideas:
Space	Space underpinning Curriculum	and Activities	Selected from FSIM:	ividen Station lacas.
Specific Outcomes	Outcomes from FSIM:	and Activities	Geometry and Space Resource	
Specific Outcomes	Geometry and Space Resource		Book (link to online	
	Book and Measurement Book		document)	
	One		documenty	
	One -		Measurement Resource Books	
			One (link to online document)	
SS6.1 Demonstrate	Reason Geometrically KU1:		Geometry and Space: 180-182	"A Unit Angle" p. 305 TS-CM
understanding of angles	• Things can be the same in some		Trapezoids and Triangles	6-8
including:	ways and different in other ways.		Quadrilaterals	0-8
• identifying examples	When we classify, we sort things		Grouping Triangles	"Wax Paper Protractor
• classifying angles	into groups that are the same in		• Grouping Thangles	Projects" p. 305-306 TS-CM
• estimating the	specified ways.			6-8
measure				
determining angle	Reason Geometrically KU3:		Geometry and Space, p. 204	"Angle Sums of Polygons" p.
measures in degrees	• There are special words, phrases,		• Computer Graphics	306 TS-CM
drawing angles	and symbols that help us to think		Colliputer Graphics Coloured Straws	300 10 6.11
applying angle	about and describe the shape and structure of things.			"Designing Rooms" in <i>Math</i>
relationships in	and structure of things.		• Straw Shapes	Makes Sense 6 ProGuide ™
triangles and	Reason Geometrically KU4:		Geometric Symbols	Unit 4: Angles and Polygons,
quadrilaterals	People have developed useful		Coometry and Space 217 210	p. v.
4	ways to classify shapes. Knowing		Geometry and Space, 217-219 • Quadrilaterals	
	that a shape is one of the			"Look Out for Angles" in
	standard types can tell us a lot		Geoboard	Math Makes Sense 6
	about it.		• Shape Clues	ProGuide ™ Unit 4: Angles
			Sorting Triangles	and Polygons, p. v.
				7571
	Direct Measure KU1:		Measurement, 119-120	"Angle Tic-Tac-Toe" in Math
	We can directly compare objects		Book Corners	Makes Sense 6 ProGuide ™
	or events to say which has more		Ordering Angles	Unit 4: Angles and Polygons,
	length, mass, capacity, area,			p. v.
	volume, angle, or time.			

Direct Measure KU4: Calibrated scales can be used as a substitute for repeating units when measuring length,	Measurement, 149 • Angles	"Angle Hunt Game" in Math Makes Sense 6 ProGuide ™ Unit 4: Angles and Polygons, p. v; student book, p. 143.
capacity, mass, angle, and time.		

GRADE 6 Shape and	Key Concepts in	Sample Diagnostic Tasks	Sample Learning Tasks	Math Station Ideas:
Space	Measurement underpinning	and Activities	Selected from FSIM:	iviatii Statioii lueas.
1 .	Curriculum Outcomes from	and Activities		
Specific Outcomes			Measurement Resource Books	
	FSIM: Measurement		One (link to online document)	
	Resource Book <i>One</i> and <i>Two</i>			
			Measurement Resource Book	
			<u>Two</u> (link to online document)	
SS6.2 Extend and apply	Indirect Measure KU1:		Measurement Book <i>Two,</i> p.	Connecting Formulas to
understanding of	 For certain types of shapes, 		32-38	Area, Perimeter, and Volume
perimeter of polygons,	we can describe the		Pizza Trays	(link to printable)
area of rectangles, and	relationship between the		Which Pasture is Bigger?	
volume of right	lengths of their edges and		Buildings	"Fixed Perimeters" p. 310 TS-
rectangular prisms	their perimeters, areas, and		The Sealed Room	CM 6-8
(concretely, pictorially,	volumes.		Twenty-Four Cubes	
and symbolically)			Perimeter or Area?	"Fixed Areas" p. 311 TS-CM
including:			House Plans	
• relating area to			• Lunch Boxes	"Area of a Parallelogram" p.
volume			Cubic Straws	313 TS-CM p. 313
• comparing perimeter			Five Triangles	525 15 S p. 525
and area			 Rearranging Parallelograms 	"Making 'To-Go' Boxes" p.
• comparing area and			Rearranging Trapezoid	316 TS-CM (adapt to metric
volume				units)
	Indirect Measure KU4:		Measurement Book <i>Two,</i> p. 76	units)
generalizing strategies	We can calculate one		Oil Spills	(Calaulatina Banina tanan d
and formulae	measurement from others		Using Perimeter	"Calculating Perimeter and
analyzing the effect of	using relationships between		Using a Formula	Area" in Math Makes Sense
orientation	quantities.		 Missing Labels 	6 ProGuide ™ Unit 6:
 solving situational 			• Can You Do It?	Geometry and
questions.				Measurement, p. v.
				<u>Perimeter Possibilities</u>
	Understand Units KU6:		Measurement Book <i>One</i> , p. 76	(online interactive)
	Our choice of attribute and		• Lawns and Garden Beds	
	unit depends on what we are		Carpet and Paint	Sending a Parcel (link to
	trying to measure and why.			problem)

Understand Units KU8: • The relationship among standard units in the met system help us to judge si move between units, and computations.	ze,	Measurement Book <i>One,</i> p. 98-99 • Length and Square Units • Length and Cubic Units	Perimeter, Area, and Volume Stage 3 – Short Problems (link to problems)
Direct Measure KU5: • Units are quantities and s we can use different representations of the sal unit so long as we do not change the quantity.		Measurement Book <i>One,</i> p. 162-163 • Covering One Square Metre • Irregular Areas	

GRADE 6 Shape and	Key Concepts in	Sample Diagnostic Tasks	Sample Learning Tasks	Math Station Ideas:
Space	Measurement underpinning	and Activities	Selected from FSIM:	
Specific Outcomes	Curriculum Outcomes from		Geometry and Space Resource	
	FSIM: Geometry and Space		Book (link to online	
	Resource Book		document)	
SS6.3 Demonstrate	Reason Geometrically KU1:		Geometry and Space, page	"Exploring Paper Triangles"
understanding of	Things can be the same in		180-182	in Math Makes Sense 6
regular and irregular	some ways and different in		Trapezoids and Triangles	ProGuide ™ Unit 6: Geometry
polygons including:	other ways. When we classify, we sort things into		Quadrilaterals	and Measurement, p. v.
 classifying types of 	groups that are the same in		Grouping Triangles	"Making Angles and
triangles	specified ways.			"Making Angles and Triangles" in Math Makes
 comparing side 				Sense 6 ProGuide ™ Unit 6:
lengths	Reason Geometrically KU3:		Geometry and Space, pages	Geometry and Measurement, p.
 comparing angle 	There are special words,		205-206	v.
measures	phrases, and symbols that		• Guess My Shape 1	
differentiating	help us to think about and		Glossary	"Partner Polygons" in Math
between regular and	describe the shape and		Chart of Words	Makes Sense 6 ProGuide ™ Unit
irregular polygons	structure of things.		Straw Shapes	6: Geometry and Measurement,
analyzing for	Dance Comments in the KIIA			p. v.
congruence.	Reason Geometrically KU4:		Geometry and Space, pages	
	• People have developed useful ways to classify shapes.		218	"Beat the Clock!" in Math
	Knowing that a shape is one		• True or False?	Makes Sense 6 ProGuide ™ Unit
	of the standard types can tell		 Quadrilaterals 	6: Geometry and Measurement,
	us a lot about it.		Sorting Triangles	p. v; student book p. 239
				Regular and Irregular Shapes
	Represent Transformation		Geometry and Space, pages	(online interactive)
	KU2:		139-141	(55
	We can move things around		Hexomino Pairs	Shape Up (link to printable
	in space by reflecting,		Recreating Border Patterns	games)
	translating and rotating. These do not change size or		Tessellation	S,
	shape.		Scalene Triangle	Triangle Splat (online
			 Quadrilaterals 	interactive)

GRADE 6 Shape and	Key Concepts in	Sample Diagnostic Tasks	Sample Learning Tasks	Math Station Ideas:
Space	Measurement underpinning	and Activities	Selected from FSIM:	
Specific Outcomes	Curriculum Outcomes from		Geometry and Space Resource	
	FSIM: Geometry and Space		Book (link to online	
	Resource Book		document)	
SS6.4 Demonstrate	Represent Location KU1:		Geometry and Space, 32-35	Billy Bug (online interactive)
understanding of the	We describe where things are		• Grid Picture	=, =,
first quadrant of the	in relation to other things.		Battleships	Catch the Fly (online
Cartesian plane and	There are special words,		• Street Maps	interactive)
ordered pairs with	phrases, and symbols that		Latitude and Longitude	
whole number	help us with this.		Where in the World?	Transportation Museum
coordinates.			• Where in the World:	(online interactive)
				(**************************************
				Spy Guys Interactive: Using
				Ordered Pairs (online
				interactive)
				Stock the Shelves (online
				interactive)
				Coordinate Plane dice game
				(link to instructions)
				,
				Coordinate Plane Battleship
				(pdf)
				`` '
				Coordinate Plane Four in a
				Row game (pdf)

GRADE 6 Shape and	Key Concepts in	Sample Diagnostic Tasks	Sample Learning Tasks	Math Station Ideas:
Space	Measurement underpinning	and Activities	Selected from FSIM:	
Specific Outcomes	Curriculum Outcomes from		Geometry and Space Resource	
	FSIM: Geometry and Space		Book (link to online	
	Resource Book		document)	
SS6.5 Demonstrate	Represent Transformation		Geometry and Space, 127-128	Spy Guys Interactive: Using
understanding of single,	KU1:		Reflection	Ordered Pairs (online
and combinations of,	We can imagine how a thing		• Paper Folding 1, 2	interactive)
transformations of 2-D	will look after we move all or		Snowflakes	
shapes (with and	part of it or change our view		Template	Geometry Transformations
without the use of	of it.			(online interactive)
technology) including:	Represent Transformation		Geometry and Space, 139-140	
identifying	KU2:		Hexonimo Pairs	Kahn Academy:
• describing	We can move things around		Border Pattern	<u>Transformations</u> (online
• performing.	in space by reflecting,		Shape Shifter	interactive)
	translating, and rotating.		 Centre of Rotation 	<i>((</i> -), (), ()
	These do not change size or		 Using the Mira 	"Entrapment" (pdf)
	shape.		 Categorizing 	"How Did It Get There From
			Transformations	Here?" in Math Makes Sense 6
			 Re-creating Border Patterns 	ProGuide ™ Unit 8:
				Transformation, p. v.
	Represent Transformation		Geometry and Space, 162-163	Transfermation, p. 11
	KU4:		Border Patterns	"Transformation Patterns" in
	Symmetrical things have		 Quadrilaterals 	Math Makes Sense 6 ProGuide
	component parts which can		Logos and Crests	™ Unit 8: Transformation, p. v.
	be matched by rotating,		Card Designs	
	reflecting, or translating.		Graphics Programs	"Hexiamonds" in Math Makes
			Venn Diagram	Sense 6 ProGuide ™ Unit 8:
			 Rotational Designs 	Transformation, p. v.
			Word Art	"Transformation Challenge"
			 Rotational Symmetry 	in Math Makes Sense 6 Student
				Book Unit 8: Transformation, p.
				303