GRADE 4 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		Measurement Resource Books	
	FSIM: Measurement		One (link to online document)	
	Resource Book <i>One</i>			
SS4.1 Demonstrate an	Understand Units KU4:		Measurement, Book One, p.	"Which Takes Longer?" p.
understanding of time	• The instrument we choose		58-59	243 TS-CM
by:	to represent our unit		Units of Time	
 reading and recording 	should relate well to the			Time (online interactive)
time using digital and	attribute to be measured		Measurement, Book One, p.	
analog clocks (including	and be easy to repeat to		75	Time Games (online
24 hour clocks)	match the object or event		Units of Time	interactive)
 reading and recording 	to be measured.			
calendar dates in a			Measurement, Book One, p.	What's the Time? Board
variety of formats.	Understand Units KU6:		174	Game (link to printable)
	 Our choice of attribute and 		 Analog and Digital Clocks 	
	unit depends on what we		 Clocks and Stopwatches 	Elapsed Time: At the Movies
	are trying to measure and		Calendars	(link to printable)
	why.		Phases of the Moon	
	Direct Measure KU6:			
	 We can judge and measure 			
	time using both natural			
	cyclical changes and			
	special techniques and			
	tools which people have			
	developed.			

GRADE 4 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		Measurement Resource Books	
Specific Gateomes	FSIM: Measurement		One (link to online document)	
	Resource Book <i>One</i>		((
			Measurement Resource Book	
			<i>Two</i> (link to online document)	
SS4.2 Demonstrate an	Understand Units KU1:		Measurement, Book <i>One</i> , p.	Party Designer (online
understanding of area	We can compare objects or		27,29	interactive)
of regular and irregular	events by how much of a		• Area	
2-D shapes by:	particular attribute each has.		• Comparing Polygons	"Guess the Unit" p. 318 TS-
 recognizing that area 	Different attributes may		Perimeter and Area	CM 3-5
is measured in square	result in different orders.		o i crimeter and Area	
units				"Tangram Areas" p. 325 TS-
selecting and	Understand Units KU3:			CM 3-5
justifying referents for	To measure something		Measurement, Book <i>One</i> , p.	
the units cm 2 or m 2	means to say how much of a		44,46	"Cover and Compare" p. 326
• estimating area by	particular attribute it has. We		• Hungry Cow	TS-CM 3-5
using referents for cm 2	measure by choosing a unit and working out how many of		Garden Plots	
or m 2	the unit it takes to match the		• Garden Plots	"Rectangle Comparison –
determining and	object or event.			Square Units" p. 327 TS-CM
recording area (cm 2 or				3-5
m 2)	Understand Units KU4:		Massurament Book One n	
• constructing different	• The instrument we choose to		Measurement, Book <i>One</i> , p. 59	"Fixed Areas" p. 328 TS-CM
rectangles for a given	represent our unit should			3-5
area (cm2 or m 2) in	relate well to the attribute to		Garden Plots	
order to demonstrate	be measured and be easy to			
that many different	repeat to match the object or			
rectangles may have	event to be measured.			
the same area.				
and dame died.	Understand Units KU5:			
	Measurements of continuous		Management Basil Gas	
	quantities are always		Measurement, Book <i>One</i> , p.	
	approximate. Measurements		67	
	can be made more accurate		Hungry Cow	

by choosing smaller units, subdividing units, and using other strategies. Indirect Measure KU1: • For certain types of shapes we can describe the relationship between the lengths of their edges and their perimeters, areas, and volumes.	Measurement, Book Two, p. 29-35 Covering a Rectangle Covering a Rectangle (2) Incomplete Grids Oil Spills Which Pasture Is Bigger? Perimeter or Area?
Estimate KU2: • We can improve our estimates by getting to know the size of common units and by practising judging the size of objects and events.	Measurement, Book <i>Two</i> , p. 99-101 • A Square Metre • A Square Centimetre

GRADE 4 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)	
SS4.3 Demonstrate an	Represent Shape KU1:		Geometry and Space, pages	Oblong (online interactive)
understanding of	When we copy and make		74, 78-79	
rectangular and	figures and objects, we need		Copy a Prism	Air Nets (online)
triangular prisms by:	to think about how the whole		Make a Ramp	
 identifying common 	thing looks and about how		• Function of Shapes	Nets of Polyhedra (link to
attributes	the parts relate to each other		,	printables)
 comparing 	and to the whole.		Geometry and Space, pages 88	
 constructing models. 	Demander Change KII2		- 90	
	Represent Shape KU2: • The net of an object has to		Making Nets	
	have the same component		Matching Nets	
	parts as the object, and the		Matching Nets Again	
	parts have to be in the		• Tracing	
	correct relationship to each		 Predicting 3-D from 2-D 	
	other.		o redicting 5 b from 2 b	
			Geometry and Space, page	
	Represent Shape KU3:		103	
	 To understand drawings of 		• Skeleton Diagram	
	objects, we need to combine		• Skeletoli Diagraffi	
	what we can actually see with			
	what we think is there.			
	Special drawing techniques			
	emphasize different aspects			
	of an object.			
	Reason Geometrically KU1:		Geometry and Space, page	
	Things can be the same in		179	
	some ways and different in			
	other ways. When we		 Sorting Objects 	
	classify, we sort things into			
	groups that are the same in			
	<u> </u>			

specified ways.	
Reason Geometrically KU2: Thinking about shape can help us to understand the way things work and fit together.	Geometry and Space, pages 190-192 • Bricks • Homes
Reason Geometrically KU4: • People have developed useful ways to classify shapes. Knowing that a shape is one of the standard types can tell us a lot about it.	Geometry and Space, pages 215-217 • Choose a Shape • What Am I?

GRADE 4 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)	
SS4.4 Demonstrate an	Represent Transformation		Geometry and Space, pages	Lines of Symmetry: Shape
understanding of line	KU1:		123-125	Game (online interactive)
symmetry by:	We can imagine how a		Paper Folding 1	
identifying	thing will look after we		 Snowflakes 	Symmetry Activity with
symmetrical 2- D shapes	move all or part of it or		Paper Folding 2	Pattern Blocks (link)
 creating symmetrical 	change our view of it.			
2- D shapes				Hands on Math: Symmetry
 drawing one or more 	Represent Transformation		Geometry and Space, pages	Art (link)
lines of symmetry in a	KU4:		159-161	
2-D shape.	 Symmetrical things have 		Reflection Symmetry	
	component parts which		Body Symmetry	
	can be matched by		Butterfly	
	rotating, reflecting, or		,	
	translating.			