Item Specifications



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Introduction

In 2014 Missouri legislators passed House Bill 1490, mandating the development of the Missouri Learning Expectations. In April of 2016, these Missouri Learning Expectations were adopted by the State Board of Education. Groups of Missouri educators from across the state collaborated to create the documents necessary to support the implementation of these expectations.

One of the documents developed is the item specification document, which includes all Missouri grade level/course expectations arranged by domains/strands. It defines what could be measured on a variety of assessments. The document serves as the foundation of the assessment development process.

Although teachers may use this document to provide clarity to the expectations, these specifications are intended for summative, benchmark, and large-scale assessment purposes.

Components of the item specifications include:

Expectation Unwrapped breaks down a list of clearly delineated content and skills the students are expected to know and be able to do upon mastery of the Expectation.

Depth of Knowledge (DOK) Ceiling indicates the highest level of cognitive complexity that would typically be assessed on a large scale assessment. The DOK ceiling is not intended to limit the complexity one might reach in classroom instruction.

Item Format indicates the types of items used in large scale assessment. For each expectation, the item format specifies the type best suited for that particular expectation.

Text Types suggests a broad list of text types for both literary and informational expectations. This list is not intended to be all inclusive: other text types may be used in the classroom setting. The expectations were written in grade level bands; for this reason, the progression of the expectations relies upon increasing levels of quantitative and qualitative text complexities.

Content Limits/Assessment Boundaries are parameters that item writers should consider when developing a large scale assessment. For example, some expectations should not be assessed on a large scale assessment but are better suited for local assessment.

Sample stems are examples that address the specific elements of each expectation and address varying DOK levels. The sample stems provided in this document are in no way intended to limit the depth and breadth of possible item stems. The expectation should be assessed in a variety of ways.

	Mathematics		2.NBT.A.1
NBT	Number Sense and Operations in Base Ten		
Α	Understand place value of three digit numbers		
1	Understand three-digit numbers are composed of hundreds, tens and ones.		
	Expectation Unwrapped		DOK Ceiling
Tho stud	ant will understand three digit numbers are composed of hundrods $(100, 200, 200)$ tans		3
(10, 20, 3	and ones (0, 1, 2, 3,).		Item Format
(10) 20)		Selected Response	
The stud	ent will compose three digit numbers in multiple ways.	Constructed Respon	nse
		lechnology Enhanc	ed
The stud	ent will decompose three digit numbers in multiple ways.		Sample Stems
		How many tens are	in 120? <i>(12)</i>
		What number does	each of the following expressions
		1 34 tens and	13 ones (3/3)
		2. 3 hundreds	. 3 tens and 13 ones (343)
		3. 2 hundreds	, 12 tens and 23 ones (343)
		Show the value of 2	17 in two ways.
		(2 nunareas, 1 ten c	ina 7 ones; 21 tens and 7 ones)
		Draw 142 using hur	ndred flats, ten rods and units.
		Margaret has a favo	prite number. Her number has the
		digit 7 in the ones p	place, a 5 in the tens placeand a 1 in
		the hundreds place	. What is Margaret's favorite
		number? <i>(157)</i>	
Stat	te Assessment Content Limits/Boundaries Classroom Work Should Include Extension	<u>Ca</u>	Iculator Designation
Inree-di	git numbers. atives should be used	a calculator w	ill not be available for items
Ivianipul	מנועבי אווטעוע של עצלע.		

	Mathematics		2.NBT.A.2
NBT	Number Sense and Operations in Base Ten		
Α	Understand place value of three digit numbers		
2	Understand that 100 can be thought of as 10 tens – called a "hundred".		
	Expectation Unwrapped		DOK Ceiling
			2
The stud	ent will decompose one hundred into ten tens.		Item Format
The stud	ent will compose ten tens into one hundred called a "hundred"	Selected Response	
The stud		Constructed Respor	nse
		Technology Enhance	ed
			Sample Stems
		Laura bas one bund	red marbles. How many bags of ten
		marbles can she ma	ke?
		Braeden has ten bo	xes of crayons. Each box holds ten
		crayons. How many	crayons does Braeden have?
		Colored pencils are	sold in hoves of ten nencils Mr Ellis
		needs one hundred and forty pencils. He has t	
		pencils. How many	boxes of ten pencils should he buy?
Sta	te Assessment Content Limits/Boundaries Classroom Work Should Include Extension	<u>Ca</u>	Iculator Designation
Limited	to three-digit numbers.	NO – a calculator w	III not be available for items

	Mathematics		2.NBT.A.3
NBT	Number Sense and Operations in Base Ten		
Α	Understand place value of three digit numbers		
3	Count within 1000 by 1s, 10s and 100s starting with any number.		
	Expectation Unwrapped		DOK Ceiling
The stud	ent will count forward within one thousand by ones starting with any number		2
	ent win count for ward within one thousand by ones starting with any humber.		<u>Item Format</u>
The stud	ent will count forward within one thousand by tens starting with any number.	Selected Response	
		Technology Enhance	ed
The stud	ent will count forward within one thousand by one hundreds starting with any number.		
The stud	ent will count backward within one thousand by ones starting with any number.		Sample Stems
		Ask student to cour	ıt:
The student will count backward within one thousand by tens starting with any number. for for		forward by ones sta	rting with 452 (452, 452, 454)
		forward by one hun	dreds starting with 337 (337, 437,
The stud	ent win count backward within one thousand by one numbers starting with any number.	537)	starting with $754/754$ 752 752
		backwards by tens	starting with 551 (551, 541, 531)
		Do the numbers sho	ow counting by tens? Yes or No
		120, 130, 140, 1	50, 160
		135, 235, 335, 4	35, 535
Stat	e Assessment Content Limits/Boundaries Classroom Work Should Include Extension	Ca	culator Designation
Beginnin	g at zero and not greater than one thousand.	NO – a calculator w	ill not be available for items

	Mathematics		2.NBT.A.4
NBT	Number Sense and Operations in Base Ten		
Α	Understand place value of three digit numbers		
4	Read and write numbers to 1000 using number names, base-ten numerals and expanded f	form.	
	Expectation Unwrapped		DOK Ceiling
_			2
The stud	ent will read the number name for any given number zero to one thousand.		Item Format
The stud	ant will read any number zero to ano they cand given the base ton numeral	Selected Response	
The stud	ent will fead any number zero to one thousand given the base-ten numeral.	Constructed Respon	ise
The stud	ent will read any given number zero to one thousand expressed in expanded form	Technology Enhance	ed
The stud			Comple Stores
The stud	ent will write any given number zero to one thousand using number names.	It is 142 days uptil S	<u>Sample Stems</u>
		name for the days u	naun's birthday. White the humber
The stud	ent will write any given number zero to one thousand using base-ten numerals.	(one hundred forty-	three)
The stud	ent will write any given number zero to one thousand using expanded form.	Write 286 in expand	led form.
		(200 + 80 + 6)	
		Write the number n	ame (word form) for 286.
		(two hundred eighty	ı-six)
		Write two hundred	eighty-six as a base ten-numeral.
		(286)	
		Mrs. Cannon has a b	box of 457 straws. Write the number
		of straws in expande	ed form.
		(400 + 50 + 7)	
Sta	e Assessment Content Limits/Boundaries Classroom Work Should Include Extension	Cal	culator Designation
Number	beginning at zero and not greater than one thousand.	NO – a calculator wi	ill not be available for items
For class	room purposes, use the terminology "base ten numerals" and "standard form"		
intercha	ngeably.		
For class	room purposes, use the terminology "number names" and "word form" interchangeably.		
For asse	ssment purposes, use the terminology of the expectation: "base ten numerals" and		
"number	names".		

	Mathematics		2.NBT.A.5
NBT	Number Sense and Operations in Base Ten		
Α	Understand place value of three digit numbers		
5	Compare two three-digit numbers using the symbols >, = or <.		
	Expectation Unwrapped		DOK Ceiling
The stud	ant will compare two three digit numbers based on the meaning (value) of the hundreds		3
tensand	ones digits using the symbols $< = $ or >.		<u>Item Format</u>
tensana		Selected Response	
The stud	ent will use the meaning (value) of the hundreds, tens and ones digits to explain the	Constructed Respor	nse
comparis	son of two three-digit numbers.	Technology Enhanc	ed
The stud	ant will record the results of comparison using the symbols $\zeta = \alpha x$		Sample Stems
The stud	ent will record the results of comparison using the symbols <, =, or >.		
		Use the symbols <,	=, or > to compare the numbers.
		649 53	3
		399 39	9
		Is the comparison to	rue? Yes or No
		343 < 314	
		/18 > 680	
		129 < 151	
Stat	te Assessment Content Limits/Boundaries Classroom Work Should Include Extension	Ca	Iculator Designation
Limited t	o two three-digit numbers	NO – a calculator w	ill not be available for items

NBT B 6 Number Sense and Operations in Base Ten Use place value understanding and properties of operations to add and subtract. Demonstrate fluency with addition and subtraction within 100. Expectation Unwrapped Involving addition and subtraction within one hundred. DOK Ceiling 3 The student will use multiple representations to model real-world and mathematic problems involving addition and subtraction within one hundred. Description of the student will critique the reasoning of others, identifying errors and alternate approaches to solving problems involving addition and subtraction within one hundred. Selected Response Constructed Response Technology Enhanced The student will decontentualize and contextualize problems and colutions to explain bis or ber Sample Stems
B Use place value understanding and properties of operations to add and subtract. Demonstrate fluency with addition and subtraction within 100. Expectation Unwrapped DOK Ceiling 3 The student will use multiple representations to model real-world and mathematic problems involving addition and subtraction within one hundred. Item Format The student will critique the reasoning of others, identifying errors and alternate approaches to solving problems involving addition and subtraction within one hundred. Selected Response Constructed Response Technology Enhanced The student will decentertualize and contextualize problems and colutions to explain his er her Sample Stems
6 Demonstrate fluency with addition and subtraction within 100. Expectation Unwrapped DOK Ceiling 3 The student will use multiple representations to model real-world and mathematic problems involving addition and subtraction within one hundred. DOK Ceiling 3 The student will critique the reasoning of others, identifying errors and alternate approaches to solving problems involving addition and subtraction within one hundred. Selected Response Constructed Response Technology Enhanced
Expectation Unwrapped DOK Ceiling The student will use multiple representations to model real-world and mathematic problems involving addition and subtraction within one hundred. DOK Ceiling The student will critique the reasoning of others, identifying errors and alternate approaches to solving problems involving addition and subtraction within one hundred. Selected Response Constructed Response Constructed Response The student will decentertualize and contextualize problems and colutions to explain his er her Sample Stems
Expectation Unwrapped DOK Ceiling The student will use multiple representations to model real-world and mathematic problems involving addition and subtraction within one hundred. Item Format The student will critique the reasoning of others, identifying errors and alternate approaches to solving problems involving addition and subtraction within one hundred. Selected Response The student will decentertualize and contextualize problems and colutions to evaluate his or her Sample Stems
The student will use multiple representations to model real-world and mathematic problems involving addition and subtraction within one hundred. 3 The student will critique the reasoning of others, identifying errors and alternate approaches to solving problems involving addition and subtraction within one hundred. Item Format Selected Response Constructed Response The student will decenter tualize and contextualize problems and solutions to explain his or her Sample Stems
The student will use multiple representations to model real-world and mathematic problems involving addition and subtraction within one hundred. Item Format The student will critique the reasoning of others, identifying errors and alternate approaches to solving problems involving addition and subtraction within one hundred. Selected Response The student will decenter tualize and contextualize problems and colutions to explain his or her Selected Response Sample Stems Sample Stems
The student will critique the reasoning of others, identifying errors and alternate approaches to solving problems involving addition and subtraction within one hundred. Selected Response Constructed Response Technology Enhanced Sample Stems
The student will critique the reasoning of others, identifying errors and alternate approaches to solving problems involving addition and subtraction within one hundred. Constructed Response Technology Enhanced The student will decenter tualize and contextualize problems and colutions to explain his or her Sample Stems
solving problems involving addition and subtraction within one hundred. The student will decenter tualize and contextualize problems and solutions to explain his or her
The student will decenter tualize and contextualize problems and solutions to explain his or her
The student will decenter tualize and contextualize problems and solutions to explain his or her
Jeremy explained how he added 13 +34 + 7
reasoning in addition and subtraction problems within one hundred. He knew 13 = 10 + 3 and 34 = 30 + 4.
So he adds 10 + 30 to get 40.
The student will identify and explain patterns and the structure of the problems with specific focus an the properties of mathematics when solving problems involving addition and subtraction within
on the properties of mathematics when solving problems involving addition and subtraction within get another 10. So 40 + 10 = 50 and the remaining 4
would make 54.
The student will communicate his or her reasoning precisely to problems involving addition and
subtraction within one hundred.
added 20 and 54 to get 54.
Who is correct and why. Who do you think is more
efficient and why?
Linda said she knew that 54-34= 20 because 20 + 34 =
54. Is she correct in her thinking? Why or why not?
State Assessment Content Limits/Boundaries Classroom Work Should Include Extension Calculator Designation
Sum and minuend not greater than one hundred. NO – a calculator will not be available for items
Students should be able to apply the understanding of compose/decompose a ten and the
associative property but not be expected to name, label or identify.
Student explanations of strategies used to add and subtract within one hundred should be
assessed verbally. Eluency refers to accuracy and efficiency and does not equate to memorization

	Mathematics		2.NBT.B.7
NBT	Number Sense and Operations in Base Ten		
В	Use place value understanding and properties of operations to add and subtract.		
7	Add up to four two-digit numbers.		
	Expectation Unwrapped		DOK Ceiling
The stud	ant will add up to four two digit numbers using strategies based on place value		2
The stud	ent will add up to four two-digit numbers using strategies based on place value.		Item Format
The stud	ent will add up to four two-digit numbers using the commutative and associative	Selected Response	
propertie	es of operations.	Constructed Response	2
		l echnology Enhanced	
		<u>S</u>	Sample Stems
		Melody practiced the twenty-five minutes, s minutes and twenty-tl to show the number o piano. (Possible equations in 25+15+17+23 = 80)	piano on four days this week for seventeen minutes, fifteen hree minutes. Write an equation of minutes Melody practiced the clude 25+17+15+23 = 80 or
<u>Stat</u> Four two The stud teacher s	te Assessment Content Limits/Boundaries Classroom Work Should Include Extension -digit numbers, sum not greater than one hundred ents need not be assessed on the use of formal terms for these properties; however, the should use the correct mathematical vocabulary in class.	<u>Calcu</u> NO – a calculator will	Ilator Designation not be available for items

	Mathematics		2.NBT.B.8
NBT	Number Sense and Operations in Base Ten		
В	Use place value understanding and properties of operations to add and subtract.		
8	Add or subtract within 1000, and justify the solution.		
	Expectation Unwrapped		DOK Ceiling
The stud	ent will add within one thousand		3
The stud			<u>Item Format</u>
The stud	ent will justify the sum using concrete models and drawings.	Selected Response	
-		Technology Enhance	ed
The stud	ent will justify the sum using strategies based on place value understanding.		
The stud	ent will subtract within one thousand.	The school ordered	<u>Sample Stems</u> 136 blue shirts and 152 red shirts
		How many shirts we	ere ordered?
The stud	ent will justify the difference using concrete models and drawings.	,	
The stud	ent will justify the difference using strategies based on place value understanding	136 -> 100 + 30 +	6
The stud	ent win justify the uncreased using strategies based on place value understanding.	$152 \rightarrow 100 + 50 +$	2
		Nancy collected 317	box tops.
Another	possible sample stem:	Margie collected on	e hundred fewer box tops than
ose the	3 9 9	Nancy.	ower how tons than Margie
+	2 3	How many box tops	did Sally collect?
	5	, ,	,
Explain h	ow you solved the problem.		
Sta	e Assessment Content Limits/Boundaries Classroom Work Should Include Extension	Ca	culator Designation
Sum and	minuend cannot be greater than one thousand.	NO – a calculator w	ill not be available for items
Concrete	models and/or drawings should be used as appropriate for initial development of		
concepts	•		
1			

	Mathematics		2.NBT.B.9
NBT	Number Sense and Operations in Base Ten		
В	Use place value understanding and properties of operations to add and subtract.		
9	Use the relationship between addition and subtraction to solve problems.		
	Expectation Unwrapped		DOK Ceiling
The stud	ant will use the relationship between addition and subtraction to solve problems		2
The stud	ent win use the relationship between addition and subtraction to solve problems.		Item Format
The stud	ent will use addition to solve problems that involve subtraction.	Selected Response	
		Technology Enhance	d
			-
			Sample Stems
		If Kurt had forty seve	en video games and sold some of
		them, and now had t	hirty five. How many did Kurt sell?
Sum not	te Assessment Content Limits/Boundaries Classroom Work Should Include Extension	Calc	culator Designation
Sum not	will not be required or encouraged to use equation solving techniques	nu – a calculator Wil	i not be available for items
(Addition	/Subtraction property of equality). The focus will be on the relationships between the		
terms of	equations involving addition or subtraction.		
Problem	context should focus on the following structures: A - \Box = B and \Box + C = D.		

	Mathematics		2.NBT.B.10
NBT	Number Sense and Operations in Base Ten		
В	Use place value understanding and properties of operations to add and subtract.		
10	Add or subtract mentally 10 or 100 to or from a given number within one thousand.		
	Expectation Unwrapped		DOK Ceiling
The stud			3
The stud	ent will mentally add ten to a given number within one thousand.		<u>ltem Format</u>
The stud	ent will mentally subtract ten from a given number within one thousand.	Selected Response	
		Constructed Respon	nse
The stud	ent will mentally add one hundred to a given number within one thousand.		ed
The stud	ent will mentally subtract one hundred from a given number within one thousand		Sample Stems
The staa	ent win mentally subtract one number within one thousand.	What is ton more th	5642 (574)
		What is 564 – 10?	(554)
		What is 344 + 100?	(444)
		What is 100 less that	an 344? <i>(244</i>)
			()
Ct-	a Assessment Content Limits / Doundaries Classroom Work Should Indude Futureise		leulator Designation
Sum and	minuend cannot be greater than one thousand	NO – a calculator w	ill not be available for items

	Mathematics		2.NBT.C.11
NBT	Number Sense and Operations in Base Ten		
С	Represent and solve problems involving addition and subtraction		
11	Write and solve problems involving addition and subtraction within 100.		
	Expectation Unwrapped		DOK Ceiling
The stud The stud	ent will write (e.g., represent) problems involving addition within one hundred. ent will solve problems involving addition within one hundred.	Selected Response Constructed Respor	3 Item Format
The stud	ent will write (e.g., represent) problems involving subtraction within one hundred.	Technology Enhance	ed
The stud	ent will solve problems involving subtraction within one hundred.		Sample Stems
The stud within or	The student will write (e.g., represent) and solve problems involving addition and subtraction apples on Saturation within one hundred to solve one-step problems with unknowns in all positions.		s on Friday. He picked some more Jay now has 76 apples. How many on Saturday? Write an equation and
The stud	ent will use drawing and/or equations with a symbol for the unknown number in all	Possible solution 41 +	= 76
Stat Sum and One unk One-step Unknow Symbol u	te Assessment Content Limits/Boundaries Classroom Work Should Include Extension minuend cannot be greater than one hundred. nown. o problems. ns in all positions include 4 + n = 7, n + 3 = 7, 4 + 3 = n, 7 - n = 4, n - 3 = 7, 4 - 3 = n. used should be a .	<u>Cal</u> NO – a calculator w	lculator Designation ill not be available for items

	Mathematics	2.RA.A.1
RA	Relationships and Algebraic Thinking	
Α	Add and subtract within 20	
1	Demonstrate fluency with addition and subtraction within 20.	
	Expectation Unwrapped	DOK Ceiling
The stud	ent will use multiple representations to model real-world and mathematic problems	3 Item Format
involving	addition and subtraction within twenty.	<u>item romat</u>
The stud solving p	ent will critique the reasoning of others, identifying errors and alternate approaches to roblems involving addition and subtraction within twenty.	
		Sample Stems
reasonin	ent will decontextualize and contextualize problems and solutions to explain his or her g in addition and subtraction problems within twenty.	
The stud	ent will identify and explain patterns and the structure of the problems with specific focus	
on the pr twenty.	operties of mathematics when solving problems involving addition and subtraction within	
The stud subtracti	ent will communicate his or her reasoning precisely to problems involving addition and on within twenty.	
Sum and	e Assessment Content Limits/Boundaries Classroom Work Should Include Extension minuend cannot be greater than twenty.	Calculator Designation NO – a calculator will not be available for items
While au	tomaticity for basic facts is desired, quick use of mental strategies may suffice.	
Fluency I	refers to accuracy and efficiency and does not equate to memorization.	

	Mathematics	2.RA.B.2.a
RA	Relationships and Algebraic Thinking	
В	Develop foundations for multiplication and division.	
2	Determine if a set of objects has an odd or even number of members.	
а	Count by 2s to 100 starting with any even number.	
	Expectation Unwrapped	DOK Ceiling
-		1
The stud	ent will determine if a set of objects has an odd or even number of members.	Item Format
The stud	ent will count by twos to one hundred starting with any even number.	Selected Response
		Constructed Response
		Technology Enhanced
		Sample Stems
		Describe to a frame above an even are an add averbar?
		Does the ten mame show an even of an odd number?
		x x x x x (odd)
		x x x (even)
		(cvch)
		Circle the set of numbers that show counting by 2s.
		34, 36, 38, 40, 42
		52, 62, 72, 82, 92
<u>Sta</u>	e Assessment Content Limits/Boundaries Classroom Work Should Include Extension	
Counting	g by twos to no greater than one hundred.	<u>Calculator Designation</u>
It is unde	ssessed verbany of non-verbany. Prstood that the formal definition of even will not be used at this grade level	NO – a calculator will not be available for items

	Mathematics		2.RA.B.2.b
RA	Relationships and Algebraic Thinking		
В	Develop foundations for multiplication and division.		
2	Determine if a set of objects has an odd or even number of members.		
b	Express even numbers as pairings/groups of 2, and write an expression to represent the nu	mber using addends	of 2.
	Expectation Unwrapped		DOK Ceiling
		1	
The stud	ent will determine if a set of objects has an odd or even number of members.		Item Format
The stud	ent will express even numbers as pairings/groups of two.	Selected Response	1
		Constructed Respo	onse
The stud	ent will write an expression to represent the number using addends of two.	Technology Ennan	ced
			Sample Stems
		Show that eight is	an even number. whierts and pairs them by circling
		aroups of 2.)	bjeets and pairs them by cheming
		Write an expression	n to match your drawing using
		addends of two.	
		(2 + 2 + 2 + 2)	
Sta	te Assessment Content Limits/Boundaries Classroom Work Should Include Extension	Ca	Iculator Designation
A sum n	o greater than one hundred.	NO – a calculator v	vill not be available for items

	Mathematics		2.RA.B.2.c
RA	Relationships and Algebraic Thinking		
В	Develop foundations for multiplication and division.		
2	Determine if a set of objects has an odd or even number of members.		
С	Express even numbers as being composed of equal groups and write an expression to repl	resent the number wit	th 2 equal addends.
	Expectation Unwrapped		DOK Ceiling
			3
The stud	ent will determine if a set of objects has an odd or even number of members.		Item Format
The stud	ent will express even numbers as being composed of two equal groups.	Selected Response	
		Constructed Respor	ise
The stud	ent will write an expression to represent an even number with two equal addends.	Technology Enhance	ed
			Sample Stems
		How would you divi groups? (Student re putting them into 2 What is the express groups? (3 + 3)	ide six objects into two equal presents 6 objects and models groups of 3.) ion that represents the two equal
<u>Stat</u> Equal ac	te Assessment Content Limits/Boundaries Classroom Work Should Include Extension Idends with a sum not greater than one hundred.	Ca NO – a calculator w	Iculator Designation ill not be available for items

	Mathematics	2.RA.B.3
RA	Relationships and Algebraic Thinking	
В	Develop foundations for multiplication and division.	
3	Find the total number of objects arranged in a rectangular array with up to 5 rows and 5 col sum of equal addends.	lumns, and write an equation to represent the total as a
	Expectation Unwrapped	DOK Ceiling
		3
The stud	ent will find the total number of objects arranged in a rectangular array with up to five rows	Item Format
and five		Selected Response
The stud	ent will write an equation to represent the total number of objects in a rectangular array	Constructed Response
with up	to five rows and five columns as a sum of equal addends.	Technology Enhanced
		Sample Stems
		Write an equation to represent the total number of
		squares as a sum of equal addentis.
		(Student answers 3+3+3+3 or 4+4+4)
C+-	to Accordment Content Limits/Roundaries Classroom Work Should Indude Futureier	Colculator Designation
Up to fiv	e rows and five columns.	NO – a calculator will not be available for items
Students	s need not be assessed on their ability to differentiate between a row and a column.	
Solution	s to a 3 X 4 array may be 4 + 4 + 4 and/or 3 + 3 + 3 + 3.	

	Mathematics		2.GM.A.1.a
GM	Geometry and Measurement		
Α	Reason with shapes and their attributes.		
1	Recognize and draw shapes having specified attributes, such as a given number of angles c	or sides.	
а	Identify triangles, quadrilaterals, pentagons, hexagons, circles and cubes.		
	Expectation Unwrapped		DOK Ceiling
			3
The stud	ent will identify triangles in different orientations.		Item Format
The stud	ent will identify quadrilaterals in different orientations	Selected Response	
The stud	ent win dentity quadriaterais in different orientations.	Constructed Respor	ise
The stud	ent will identify pentagons in different orientations.	Technology Enhance	ed
			Sample Stems
The stud	ent will identify hexagons in different orientations.		
The stud	ant will identify circles	Color the pentagons	s blue.
The stud	ent win identity circles.		
The stud	ent will identify cubes.		
The stud	ent will draw shapes when given specified attributes such as sides and angles.		
		Draw a two-dimens	ional shape that has four sides and
		four angles.	
<u>Star</u>	te Assessment Content Limits/Boundaries Classroom Work Should Include Extension	NO a calculator w	ill not be available for items
Cube is t	he only three-dimensional shape to identify and should not be expected to be drawn		
Students	are expected to apply their learning from K.GM.C.6. K.GM.C.8 and 1.GM.A.2 to support		
their lea	rning with this expectation.		
When di	scussing two-dimensional shapes, the teacher should use the term angles. When		
discussir	g three-dimensional shapes, the teacher should use the term vertices.		

Mathe	matics		2.GM.A.1.b
GM	Geometry and Measurement		
Α	Reason with shapes and their attributes.		
1	Recognize and draw shapes having specified attributes, such as a given number of angles or	sides.	
b	Identify the faces of three-dimensional objects.		
	Expectation Unwrapped		DOK Ceiling
			3
The stud	ent will understand that three-dimensional objects have two-dimensional faces.		Item Format
The stud	ent will identify the shapes of those faces	Selected Response	
The stud	ent win dentify the shapes of those faces.	Constructed Respon	nse
The stud	ent will draw a face of a three-dimensional figure	Technology Enhanc	ed
			Sample Stems
		What shape is the f	ace of a pyramid? (triangle)
		How many faces do	nes a cube have?
		(6)	
			J
Sta	te Assessment Content Limits/Boundaries Classroom Work Should Include Extension		culator Designation
Students	are not being assessed on three-dimensional shape identification.	NO – a calculator w	vill not be available for items
Face of a	pyramid or prism.		

	Mathematics		2.GM.A.2
GM	Geometry and Measurement		
Α	Reason with shapes and their attributes.		
2	Partition a rectangle into rows and columns of same-size squares and count to find the tot	al number of squares	
	Expectation Unwrapped		DOK Ceiling
			3
The stud	ent will partition (divide) a rectangle into rows and columns of same-sized squares.		Item Format
The stud	ont will count to find the total number of causes	Selected Response	
The stud	ent will count to find the total number of squares.	Constructed Respor	ise
		Technology Enhance	ed
			Sample Stems
		(Provide a 2 cm x 3	<i>cm rectangle)</i> Ask the student to
		measure the sides of	of the rectangle in centimeters.
		Instruct them to dra	aw rows and columns of the same-
		sized squares. (210	ws und 3 columns)
		What is the total nu	mber of squares? (6)
Stat	e Assessment Content Limits/Boundaries Classroom Work Should Include Extension	Ca	culator Designation
Rectangl	es including squares.	NO – a calculator w	ill not be available for items
The stud	ent will understand partition is the same as divide.		
ine diffe	rentiation between rows and columns for instructional purposes by the teacher is		
encourag	ged but not expected to be assessed.		

	Mathematics		2.GM.A.3.a
GM	Geometry and Measurement		
Α	Reason with shapes and their attributes.		
3	Partition circles and rectangles into two, three or four equal shares, and describe the shares	s and the whole.	
а	Demonstrate that equal shares of identical wholes need not have the same shape.		
	Expectation Unwrapped		DOK Ceiling
The stud			3
The stud	ent will partition (divide) circles and rectangles into two, three or four equal shares.		Item Format
The stud	ent will describe the shares using the words halves, thirds, half of, a third of, etc.	Selected Response	
		Constructed Respo	nse
The stud	ent will describe the whole as two halves, three thirds or four fourths.	rechnology Enhand	ced
The stue	ant will demonstrate that equal shares of identical wholes need not have the same shape		Sample Stems
The stud	ient win demonstrate that equal shares of identical wholes need not have the same shape.	Cooper out his con	dwich in half vertically
		Cooper cut his sand	
		Wyatt cut his sand	wich in half diagonally.
		Do both boys have	the same amount? Explain why or
		why not.	
<u>Sta</u>	te Assessment Content Limits/Boundaries Classroom Work Should Include Extension	<u>Ca</u>	lculator Designation
Two. thr	ee and four equal shares.		
The stud	ent will understand partition is the same as divide.		

	Mathematics		2.GM.B.4
GM	Geometry and Measurement		
В	Measure and estimate lengths in standard units.		
4	Measure the length of an object by selecting and using appropriate tools.		
	Expectation Unwrapped		DOK Ceiling
			3
The student will know the customary units of measurement (inches, feet and yards) and metric			Item Format
	neasurement (centimeters, meters).	Selected Response	
The stud	ent will know the customary units of measurement (inches, feet and yards) of a yardstick.	Constructed Respon	ise
		Technology Enhance	ed
The stud	ent will know the metric units of measurement (centimeters, meter) of a meter stick.		Sample Stems
T I 1 1			
tapos to	ent will select an appropriate tool such as rulers, yardsticks, meter sticks and measuring	What would be an app	propriate tool to use to measure a
tapes, to		pencil? (ruler)	
The student will use tools such as rulers, vardsticks, meter sticks and measuring tapes, to measure		How many inches long	g is the pencil? (Use a ruler marked in
length.		inches and select a per	ncil that measures a whole number of
		inches.)	
The stud	ent will measure the length of an object.	What would be an app	propriate tool to use to measure a
		baseball bat?	•
		(meter stick or yardsti	ck)
		How long is the baseb	all bat in centimeters? (Use a meter
		stick marked in centim	neters only)
Sta	e Assessment Content Limits/Boundaries Classroom Work Should Include Extension	Cal	culator Designation
Whole n	umber units only on the measuring device.	NO – a calculator wi	ill not be available for items
The stud	eet, yards, centimeters and meters.		
This is th	ent is selecting the tool not the appropriate unit.		
Standard	Lunits of measurement for the customary system include inches, feet and vards. Standard		
units of i	neasurement for the metric system include centimeters and meters. For instructional		
purpose	s units should be identified as belonging to the customary or metric system but not		
expected	to be assessed.		

	Mathematics		2.GM.B.5
GM	Geometry and Measurement		
В	Measure and estimate lengths in standard units.		
5	Analyze the results of measuring the same object with different units.		
	Expectation Unwrapped		DOK Ceiling
			3
The stud	ent will measure the same object with different units.		Item Format
The stud	ent will analyze the results of measuring the same object with different units.	Selected Response	
		Constructed Respor	ise
The stud	ent will recognize that the size of the measurement unit used is related to the number of	Technology Enhance	ed
units ne	eded to measure the object. When larger units are used, fewer of the units will be used to		Sample Stems
measure	the objects.		11 · · · · · · · · · ·
		Measure your penci	II IN INCHES.
			in in centimeters.
		How are the measu	rements alike or different? (inches
		are bigger so the nu	ımber is less)
		When given a piece	of ribbon one yard long ask:
		Measure the ribbon	in feet.
		How are the measu	rements alike or different?
Sta	te Assessment Content Limits/Boundaries Classroom Work Should Include Extension	Ca	Iculator Designation
Whole n	umber units only on the measuring device.	NO – a calculator w	ill not be available for items
Inches, f	eet, yards, centimeters and meters.		

	Mathematics		2.GM.B.6
GM	Geometry and Measurement		
В	Measure and estimate lengths in standard units.		
6	Estimate lengths using units of inches, feet, yards, centimeters and meters.		
	Expectation Unwrapped		DOK Ceiling
The stud	ant will actimate lengths using units of inchas		3
The stud	ent will estimate lengths using units of inches.		Item Format
The stud	ent will estimate lengths using units of feet.	Selected Response	
		Constructed Respo	nse
The stud	ent will estimate lengths using units of yards.		
The stud	ent will estimate lengths using units of centimeters		Sample Stems
The stat		About how many ir	aches long is toothbrush?
The stud	The student will estimate lengths using units of meters.		
		About how many c	entimeters long is a dollar bill?
		Is a jump rope abou	ut 12 inches long or 12 feet long?
		About how many m	neters long is a golf club?
		,	5 5
C+-	to Accorsmont Contant Limits (Poundarias Classroom Work Should Include Extension	C_	kulator Designation
Whole n	umber units only.	<u>Ca</u> NO – a calculator w	vill not be available for items
Inches, f	eet, yards, centimeters and meters.		
The stud	ent may be expected to select the tool but not the appropriate unit.		

	Mathematics		2.GM.B.7
GM	Geometry and Measurement		
В	Measure and estimate lengths in standard units.		
7	Measure to determine how much longer one object is than another.		
	Expectation Unwrapped		DOK Ceiling
The state			2
The stud	ent will measure two objects using customary or metric units of measurement.		<u>Item Format</u>
The stud	ent will determine how much longer one object is than another, expressing the length	Selected Response	
differend	e in terms of customary or metric units of length.	Constructed Respor	1SE
		Technology Enhance	ed
			Sample Stems
		Find something in the foot. Find something in the feet. How much longer is About how many ce About how many ce much longer is one	he classroom that measures about a he classroom that measures about 4 one object than the other? entimeters long is your math book? entimeters long is your pencil? How object than the other?
<u>Stat</u> Whole n Inches, fr Limited t	te Assessment Content Limits/Boundaries Classroom Work Should Include Extension umber units only on the measuring device. eet, yards, centimeters and meters. o two objects.	<u>Ca</u> NO – a calculator w	Iculator Designation ill not be available for items

	Mathematics		2.GM.C.8
GM	Geometry and Measurement		
С	Relate addition and subtraction to length.		
8	Use addition and subtraction within 100 to solve problems involving lengths that are given i	n the same units.	
-			
	Expectation Unwrapped		DOK Cailing
			3
The stud	ent will solve problems involving addition within one hundred to solve problems involving		Itom Format
lengths t	hat are given in the same units.	Selected Response	<u>item Format</u>
		Constructed Respo	nse
The stud	ent will solve problems involving subtraction within one hundred to solve problems	Technology Enhance	ced
involving	lengths that are given in the same units.		
The stud	ent will use drawings and/or equations to solve problems		Sample Stems
The stud	ent will use drawings and/or equations to solve problems.	Mr. Ellis puts a fence three sides. One side feet long. And the thi fencing does Mr. Ellis Clay has a piece of st piece of string to tie a inches long. How ma around the post? Write an equation us solve. (35 = 7)	around his garden. The garden has is 12 feet long. The second side is 15 ird side is 9 feet long. How many feet of s use? <i>(36)</i> ring that is 35 inches long. He cuts off a around a post. Clay's ribbon is now 7 ny inches of string did Clay use to tie sing a for the missing number. Then
Sta	te Assessment Content Limits/Boundaries Classroom Work Should Include Extension	Ca	Iculator Designation
Sum and	minuend cannot be greater than one hundred.	NO – a calculator w	vill not be available for items
Units are	the same within the problem.		
Whole n	umber units only on the measuring device.		
Inches, f	eet, yards, centimeters and meters.		
Unknow	ns in all positions include 4 + n = 7 , n + 3 = 7 , 4 + 3 = n , 7 – n = 4 , n – 3 = 7 , 4 – 3 = n .		
Symbol u	ised should be a .		

	Mathematics	2.GM.C.9
GM	Geometry and Measurement	
С	Relate addition and subtraction to length.	
9	Represent whole numbers as lengths on a number line, and represent whole-number sums	s and differences within 100 on a number line.
	Expectation Unwrapped	DOK Ceiling
The state		2
The stud	ent will represent whole numbers as lengths on a number line.	Item Format
The stud	ent will represent whole number sums within one hundred using a different number line	Selected Response
for each	addend and show how both number lines represent the sum.	Constructed Response
		lechnology Enhanced
The stud line for t	ent will represent whole number differences within one hundred using a different number he minuend and the subtrahend, and show how both number lines represent the	Sample Stems
differend	ce.	Show how you would represent 5 inches on a number
		line.
The stud	ent will represent whole number sums within one nundred on a single number line.	
The stud	ent will represent whole number differences within one hundred on a single number line.	inches plus 3 inches equals 5 inches.
		· · · · · · · · · · · · · · · · · · ·
		Using one number line show that the difference
		between a piece of ribbon measuring 7 inches long and
		a piece of ribbon 5 inches long is 2 inches.
Stat	te Assessment Content Limits/Boundaries Classroom Work Should Include Extension	Calculator Designation
Sums an	d minuend cannot be greater than one hundred.	NO – a calculator will not be available for items
Limited to whole numbers.		

	Mathematics		2.GM.D.10	
GM	Geometry and Measurement			
D	Work with time and money.			
10	Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and	p.m.		
	Expectation Unwrapped		DOK Ceiling	
			3	
The stud	ent will tell time from a digital clock to the nearest five minutes, using a.m. and p.m. when		Item Format	
givenas		Selected Response		
The stud	ent will tell time from an analog clock to the nearest five minutes, using a.m. and p.m. when	Constructed Respo	nse	
given a s	cenario.	Technology Enhanc	ced	
			Sample Stems	
The stud	ent will write time from a digital clock to nearest five minutes, using a.m. and p.m. when			
given a s	cenano.	Student is shown a	clock with a time appropriate for	
The stud	ent will write time from an analog clock to the nearest five minutes, using a.m. and p.m.	the time a student	would get on a bus to come to	
when giv	ven a scenario.	The clock shows wi	hat time Lisa gets on the bus to	
		come to school. Wi	hat time does Lisa get on the bus to	
		come to school?		
		Is it a.m. or p.m.?		
		Explain how you kn	IOW.	
		(e.a., 7:30 a.m. because it is in the morning)		
Sta	ate Assessment Content Limits/Boundaries Classroom Work Should Include Extension	<u>Cal</u>	culator Designation	
Time to	the nearest five minutes.	NO – a calculator w	vill not be available for items	
The stud	ent is expected to write answers involving time correctly from a scenario without being			
prompte	a a.m. or p.m.			

	Mathematics	2.GM.D.11	L	
GM	Geometry and Measurement			
D	Work with time and money.			
11	Describe a time shown on a digital clock as representing hours and minutes, and relate a time shown on a digital clock to the same time on an			
	analog clock.			
	Europetetion Universid			
	Expectation Unwrapped	DOK Ceiling		
The stud	ent will describe a time shown on a digital clock as representing hours and minutes, to the	3		
nearest	ive minutes.	Item Format		
_		Constructed Response		
The stud	ent will describe a time shown on an analog clock as representing hours and minutes, to	Technology Enhanced		
the heat	est five finitutes.	Sampla Stams		
The stud	ent will relate a time shown on a digital clock to the same time on an analog clock.	sample stems		
		How many hours and how many minutes are		
		represented by the time shown on the digital	clock?	
		9 : 25		
		Given an analog clock face ask student to sho same time on the clock face.	w the	
Stat	te Assessment Content Limits/Boundaries Classroom Work Should Include Extension	<u>Calculator Designation</u>	nc	
	ווב וובמוכזג וועב וווווענכז.		115	

	Mathematics		2.GM.D.12	
GM	Geometry and Measurement			
D	Work with time and money.			
12	Find the value of combinations of dollar bills, quarters, dimes, nickels and pennies, using \$ a	nd ¢ appropriately.		
		1		
	Expectation Unwrapped		DOK Ceiling	
The stud	ent will be able to represent 100¢ as \$1 in multiple ways.		3 Item Format	
The stud	ent will find and represent the value of multiples of the same coin using the ¢ symbol.	Selected Response Constructed Response	nse	
The stud	ent will find and represent the value of combinations of any two different types of coins	Technology Enhanc	ed	
using the	e ¢ symbol.	Sample Stems		
The student will find and represent the value of combinations of any two different types of coins using the ¢ symbol. The student will find and represent the value of multiples of the same dollar using the \$ symbol. The student will find and represent the value of combinations of any two different types of bills using the \$ symbol. The student will find and represent the value of combinations of dollar bills, quarters, dimes, nickels and pennies, using \$ and ¢ symbols appropriately.		Four quarters equal how many cents? (100¢) How many dollars is that? (\$1) How much is $5c + 5c $		
<u>Sta</u> Quarters One, five	ate Assessment Content Limits/Boundaries Classroom Work Should Include Extension s, dimes, nickels and pennies not to total more than 100¢ or \$1. e and ten dollar bills not to total more than \$100.	<u>Cal</u> ı NO – a calculator w	culator Designation vill not be available for items	

	Mathematics		2.GM.D.13
GM	Geometry and Measurement		
D	Work with time and money.		
13	Find combinations of coins that equal a given amount.		
	Expectation Unwrapped		DOK Ceiling
			2
The stud	lent will find a combination of coins that equal a given amount.		Item Format
The stuc	lent will find multiple combinations of coins that equal a given amount.	Selected Response	
		Constructed Respon	se
		lechnology Enhance	20
			Sample Stems
			() = = = ()
		What combination c	of coins equals 50ç?
		quarter 2 dimes and	d 1 nickel etc.)
Sta	te Assessment Content Limits/Boundaries Classroom Work Should Include Extension	Cal	culator Designation
		NO – a calculator wi	ll not be available for items
Limited	to 100¢ or less.		
Quarter	s, dimes, nickels and pennies.		

	Mathematics		2.DS.A.1
DS	Data and Statistics		
Α	Represent and interpret data		
1	Create a line plot to represent a set of numeric data, given a horizontal scale marked in who	e numbers.	
	Expectation Unwrapped		DOK Ceiling
			3
The stud	ent will create a line plot on a given horizontal scale marked in whole numbers to represent		Itom Format
a set of r	numeric data.	Selected Response	
		Constructed Response	onse
		Technology Enhan	
		Teennology Linna	
			Sample Stems
		Provide the stude	nts with a line plot where the
		horizontal scale is	marked off in whole-number units
		and ask:	
		Create a line plot	to show the lengths of Drew's
		colored pencils.	
		Red pencil - 3 inch	ies
		Blue pencil - 4 inc	hes
		Green pencil – 5 ir	nches
		Yellow pencil – 7 i	nches
		Orange pencil – 5	inches
		Purple pencil – 4 i	nches
		Pink pencil – 7 inc	hes
		Brown pencil – 5 i	nches
		Black pencil – 5 in	ches
<u>Sta</u>	ate Assessment Content Limits/Boundaries Classroom Work Should Include Extension	Ca	alculator Designation
Horizont	al number line is given and marked in whole numbers (scale is one only).	NO – a calculator	will not be available for items
Each dat	a marker (dot, etc.) must represent one and only one piece of data.		
Up to fo	ur categories and twenty discrete data values.		
Line plot	and dot plot may be used interchangeably. The graph may or may not have a vertical axis.		
For asses	ssment purposes use line plot. This should not be confused with line graphs which are		
introduc	ed at grade five.		

	Mathematics		2.DS.A.2
DS	Data and Statistics		
Α	Represent and interpret data		
2	Generate measurement data to the nearest whole unit, and display the data in a line plot.		
	Expectation Unwrapped		DOK Ceiling
			3
The stud	ent will generate measurement data by measuring lengths of several related objects to the		Item Format
nearest	whole unit.	Selected Response	<u>nem onnat</u>
		Constructed Respon	ise
The stud	ent will make multiple measurements of the same object to the nearest whole unit.	Technology Enhance	ed
The stud	ent will construct a complete line plot (number line, scale, axis label and title) that will		
display t	he measurement data.		Sample Stems
		Ack students to ma	acura tha langth of their shee to the
The stud	ent will display measurements data on a line plot.	Ask students to mea	asure the length of their shoe to the
		Ask them to measure	re the length of their math book to
		the nearest inch	sk students to report out each
		measurement Tea	cher records the data
		measurement. rea	
		Provide the student	s with a line plot where the
		horizontal scale is m	narked off in whole-number units
		and ask:	
		Display the recorde	d data on the line plot.
Sta	e Assessment Content Limits/Boundaries Classroom Work Should Include Extension	Ca	Iculator Designation
		NO – a calculator w	ill not be available for items
Horizont	al number line is given and marked in whole numbers (scale is one only).		
Each dat	a marker (dot, etc.) must represent one and only one piece of data.		
The num	ber of data points on the assessments should be limited to ten.		
Line plot	and dot plot may be used interchangeably. The graph may or may not have a vertical axis.		
For asse	ssment purposes use line plot. This should not be confused with line graphs which are		
introduc	ed at grade five.		

	Mathematics			2.DS.A.3
DS	Data and Statistics			
Α	Represent and interpret data			
3	Draw a picture graph or a bar graph to represent a data set with up to four categories.			
	Expectation Unwrapped		DOK Ce	eiling
The state			3	
Ine stud	ent will construct a picture graph (number line, scale, axis label and title) to display given or		Item Fo	ormat
conected		Selected Respons	se	
The stud	ent will display data in a picture graph.	Constructed Resp	oonse	
		Technology Enha	nced	
The stud or collec	ent will construct a gar graph (intersecting number lines, axes labels and title) to display given ted data.		Sample	<u>Stems</u>
			Use the tally chart to draw a picture graph. Draw a 😊	
The student will display data in a bar graph.		to represent each child's choice.		
		Use the same dat	ta to draw a	a bar graph.
		cat III	1	
		rabbit II		
		hamster III		
St	ate Assessment Content Limits/Boundaries Classroom Work Should Include Extension	Ca	alculator D	esignation
All given	graphs should be oriented horizontally but students may choose to display vertically.	NO – a calculator	will not be	available for items
Up to fo	ur categories and twenty discrete data values.			
The scale	e of the axis or axes will be limited to one.			
The pict	ures of a picture graph will be a scale of one.			
	not be assumed that the reader will know what the picture represents in the picture graph.			
"apple(s	יי איז איז איז איז איז איז איז איז איז א			

	Mathematics		2.DS.A.4
DS	Data and Statistics		
Α	Represent and interpret data		
4	Solve problems using information presented in line plots, picture graphs and bar graphs		
-			
	Expectation Unwranned		
			DOK Celling
The stude	ent will solve addition and subtraction problems using information presented in line plots.		3
			<u>Item Format</u>
The stude	ent will solve addition and subtraction problems using information presented in picture	Selected Respons	se
graphs.		Constructed Resp	ponse
		Technology Enha	nced
The stude	ent will solve addition and subtraction problems using information presented in bar graphs.		Sample Stems
			<u></u>
		Given a line plot	or graph that supports the following
		question, studen	t is able to answer:
		How many more	children like bananas than oranges?
			_
		-	
Line plat	ate Assessment Content Limits/Boundaries Classroom Work Should Include Extension		alculator Designation
	s, picture graphis and bar graphis.		will not be available for items
	ar categories and twenty discrete data values.		
The pictu	res of a picture graph will be a scale of one		
Line plot	and dot plot may be used interchangeably. The graph may or may not have a vertical axis		
Enr assor	and dot plot may be used interchangeably. The graph may of may not have a vertical axis.		
introduce	and at grade five		

	Mathematics		2.DS.A.5
DS	Data and Statistics		
Α	Represent and interpret data		
5	Draw conclusions from line plots, picture graphs and bar graphs.		
•			
	Expectation Unwrapped		DOK Colling
			3
The stud	ent will draw conclusions from line plots.		Itom Format
		Selected Response	item ronnat
The stud	ent will draw conclusions from picture graph.	Constructed Response	ise
The stud	ant will draw conclusions from her graphs	Technology Enhance	ed
The stud	ent will draw conclusions from bar graphs.		
			Sample Stems
		Given a line plot or	graph that supports the following
		questions, student i	s able to answer:
		How many students	s voted for their favorite fruit?
		How many voted to	r bananas? which fruit was liked the
		least!	
		The student compa	res data from two bar graphs taken a
		month apart on spe	lling test scores.
		What information s	upports the claim that students are
		improving?	
		What information d	oes not support the claim?
Cha	a Assessment Content Limits / Douglasies Classroom Mark Chould Include Futureien	6	
<u>Sta</u>	s. picture graphs and har graphs	<u>Ca</u> NO – a calculator w	ill not be available for items
Line piot	r categories and twenty discrete data values		
The scale	of the axis or axes will be limited to one		
The nict	ires of a picture graph will be a scale of one.		
Line plot	and dot plot may be used interchangeably. The graph may or may not have a vertical axis		
For asse	syment purposes use line plot. This should not be confused with line graphs which are		
introduc	ed at grade five.		