	Math Teacher	s Press, I	nc.	
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NE	ADA MATHEMATICS STAND	ARDS CORRELA <i>TE/MIDDLE (IM)</i>	ted to <i>movin</i> o ) <i>grade 6</i>	G WITH MATH®
		IM1 <i>Number, Reasoning &amp; Data</i> Student Book Skill Builders (SB)	IM2 Fractions, Decimals & Percent Student Book Skill Builders (SB)	IM3 <i>Geometry,</i> <i>Measurement,</i> <i>Graphing</i> Student Book Skill Builders (SB)
1.0	NUMBER, NUMBER SENSE, AND COMPUTATION The students will accurately calculate and use estimation techniques, number relationships, operation rules, and algorithms; they will determine the reasonableness of answers and the accuracy of solutions to solve problems, communicate, reason, and make connections within and beyond			
	the field of mathematics.			
1.6.1	Identify and use place value positions to thousandths.	2,4 <b>SB:</b> 1-1 to 1-3	45 <b>SB:</b> 23-1	<b>SB:</b> 23-1
	Fractions			
1.6.2	Add and subtract fractions with unlike denominators.		19, 20 <b>SB:</b> 17-1 to 17-3	<b>SB:</b> 17-1
•	Multiply and divide with fractions using models, drawings, and numbers.		28, 29, 33 <b>SB:</b> 19-1 to 19-5, 20-4, 20-5	<b>SB:</b> 19-1, 20-1
•	Use models to translate among fractions, decimals, and percents.		67-70 <b>SB:</b> 25-4, 29-2	<b>SB:</b> 25-1, 30-1
	Comparing and Ordering			
1.6.3	Read, write, compare, and order groups of fractions, groups of decimals, and groups of percents.		10, 11, 49-51 <b>SB:</b> 13-1, 13-2, 13-5, 24-1, 24-2	<b>SB:</b> 13-1, 24-1
	Frate			
1.6.5	identify equivalent expressions between and among fractions, decimals, and percents.		<b>SB:</b> 12-3, 29-2	
	Estimating and Estimation Strategies			

		IM1	IM2	IM3
		Number, Reasoning & Data	Fractions, Decimals & Percent	Geometry, Measurement,
		Student Book Skill Builders (SB)	Student Book Skill Builders (SB)	<i>Graphing</i> Student Book
166	Estimate using fractions, desimple		12 24 56 65	Skill Builders (SB)
1.0.0	and percents.		<b>SB:</b> 18-3, 18-4	
•	Use estimation strategies in mathematical and practical situations.	27, 28, 51, 52 <b>SB:</b> 49-1, 49-2, 50- 1 to 50-3	56 <b>SB:</b> 45-3, 45-5, 45-6. 45-8. 45-9	<b>SB:</b> 10-1
	Computation			
1.6.7	Calculate using fractions, decimals,		14-17, 19-23, 26-	
	and percents in mathematical and practical situations.		34, 54-65, 68-72 <b>SB:</b> 19-2, 19-3, 19-5, 26-2 to 26- 4, 29-3, 45-9, 53- 1, 53-2	
•	Use order of operations to evaluate expressions with integers.	<b>SB:</b> 5-6, 5-8		
1.0.0	Solving Problems and Number Theory	12 14 10	0.10	CD- 4.1
1.6.8	including prime and composite numbers, factors, multiples, and the rules of divisibility to solve problems.	<b>SB:</b> 4-2, 4-3, 4-6	8, 18 SB: 4-2, 4-3, 12- 2, 13-4	SB: 4-1
2.0	PATTERNS, FUNCTIONS, AND			
	Students will use various algebraic			
	methods to analyze, illustrate,			
	extend, and create numerous			
	representations (words, numbers,			
	tables, and graphs) of patterns,			
	functions, and algebraic relations as			
	modeled in practical situation to			
	reason, and make connections within and beyond the field of mathematics.			
	Patterns			
2.6.1	Use and create tables and charts to	73-76	<b>SB:</b> 44-1	22
	extend a pattern in order to describe	<b>SB:</b> 44-1, 44-5		
	a rule for input/output tables and to find missing terms in a sequence.			
	Variables and Unknowns			
2.6.2	Evaluate formulas and algebraic	71, 72		42, 46, 47
	expressions using whole number values.	<b>SB:</b> 56-2, 56-3		<b>SB:</b> 56-2

		IM1	IM2	IM3
		Number. Reasoning	Fractions. Decimals	Geometry.
		& Data	& Dercent	Measurement
		Q Dala		Measurennent,
		Student Book	Student Book	Grapning
		Skill Builders (SB)	Skill Builders (SB)	Student Book
				Skill Builders (SB)
•	Solve and graphically represent	78		
	equations and simple inequalities in			
	one variable.			
	Number Sentences, Expressions, and			
	Polynomials			
2.6.3	Write simple expressions and	70, 71	<b>SB:</b> 56-1	<b>SB:</b> 56-1
	equations using variables to	<b>SB:</b> 56-1, 56-4.		
	represent mathematical situations	56-5		
	represent mathematical situations.	50.5		
	Relations and Functions			
261	When given a rule relating two	78		74
2.0.4	variables create a table and			
		<b>3D.</b> 44-4		<b>3D.</b> 44-3
	represent the ordered pairs on a			
	coordinate plane			
3.0	ΜΕΔΩΙΡΕΜΕΝΤ			
5.0	Students will use appropriate tools			
	and techniques of measurement to			
	and techniques of measurement to			
	determine, estimate, record, and			
	verify direct and indirect			
	measurements to solve problems,			
	communicate, reason, and make			
	connections within and beyond the			
	field of mathematics			
	Comparison, Estimation, and			
	Conversion			
3.6.1	Estimate and compare corresponding			29
	units of measure for temperature			SB 40-4
	longth and weight (mass between			<b>30.</b> 40 4
	iength, and weight/mass between			
	customary and metric systems.			
	Precision in Measurements			
3.6.2	Given two measurements of the			
	same object, select the one that is			
	more precise			
	Evoloin how the size of the write of			
-	Explain now the size of the unit of			
	measure used effects precision.			
0.05	Formulas			
3.6.3	Select, model, and apply formulas to			42, 46-50
	find the perimeter, circumference,			<b>SB:</b> 38-3, 38-6, 38-
	and area of plane figures.			12
	Money			

		IM1	IM2	IM3
		<i>Number, Reasoning &amp; Data</i> Student Book Skill Builders (SB)	<i>Fractions, Decimals &amp; Percent</i> Student Book Skill Builders (SB)	<i>Geometry,</i> <i>Measurement,</i> <i>Graphing</i> Student Book Skill Builders (SB)
3.6.4	Compare and use unit cost in practical situations.		64	59
	Ratios and Proportions			
3.6.5	Write and apply ratios in mathematical and practical problems involving measurement and monetary conversions.		9	56, 59 <b>SB:</b> 44-2, 52-1
	Time			
3.6.6	Use equivalent periods of time to solve practical problems.			<b>SB:</b> 40-2, 40-3
4.0	SPATIAL RELATIONSHIPS, GEOMETRY AND LOGIC			
	Students will identify, represent, verify, and apply spatial relationships and geometric properties to solve problems, communicate, and make connections within and beyond the field of mathematics.			
	Two-Dimensional Shapes			
4.6.1	Measure angles using a protractor.			6 <b>SB:</b> 37-2
•	Identify, classify, compare and draw regular and irregular quadrilaterals.			9 <b>SB:</b> 34-4, 34-5
•	Identify, draw, and use central angles to represent fractions of a circle.			
	Congruence, Similarity, and Transformations			
4.6.2	Determine actual measurements represented on scale drawings.			60, 61 <b>SB:</b> 52-4, 52-5
•	Convert actual measurements to scale.			
	Coordinate Geometry and Lines of Symmetry			
4.6.3	Using a coordinate plane, identify and locate points.	77	<b>SB:</b> 43-1	15,16 <b>SB:</b> 43-1
•	Graph coordinates representing geometric shapes in all four			
	quadrants on a coordinate plane.			
	Three-Dimensional Figures			

		IM1	IM2	IM3
		Number, Reasoning	Fractions, Decimals	Geometry,
		& Data	& Percent	Measurement.
		Student Book	Student Book	Granhing
		Skill Builders (SB)	Skill Builders (SB)	Student Book
				Skill Buildore (SB)
464	Make a model of a three-dimensional			12 (T G )
7.0.7	nrism from a two-dimensional			<b>SB</b> • 34-7
	drawing			<b>30.</b> 3 <sup>-7</sup>
•	Make a two-dimensional drawing of a			<b>SB</b> · 39-1
	three-dimensional prism			
	Algebraic Connections			
4.6.5	Model slope (pitch, angle of			
	inclination) using concrete objects			
	and practical examples			
	Lines, Angles, and Their Properties			
4.6.6	Draw, identify, and find measures of			23
	complementary and supplementary			
	angles using arithmetic and			
	apometric methods			
	deometric metricos			
	Triangles			
4.6.7	Determine the measure of missing			25, 26
	angles of triangles based on the			<b>SB:</b> 55-1
	Triangle Sum Theorem.			
	Construction			
4.6.8	Construct circles, angles, and			
	triangles based on given			
	measurements using a variety of			
	methods and tools including			
	compass, straight edge, paper			
	folding and technology			
	Logic			
4.6.9	Identify counter examples to			
	disprove a conditional statement			
5.0	DATA ANALYSIS			
	Students will collect, organize,			
	display, to determine statistical			
	relationships and probability			
	projections to solve problems,			
	communicate, reason, and make			
	connections within and bevond the			
	fold of mothematica			
	Data Collection and Organization	0.1		
5.6.1	Pose questions that guide the	61		66
	collection of data.	<b>SB:</b> 46-5		<b>SB:</b> 46-1

		IM1	IM2	IM3
		Number, Reasoning	Fractions, Decimals	Geometry,
		& Data	& Percent	Measurement,
		Student Book	Student Book	Graphing Student Book
			Skiil Builders (SD)	Skill Builders (SB)
•	Organize and represent data using a			66
	variety of graphical representations			
	including circle graphs and scatter			
	nlots			
	Central Tendency and Data			
F C 2	Distribution	<u> </u>		0.5
5.6.2	Select and apply the measures of	60, 61		65 SP: 46 1
	central tendency to describe data.	<b>36.</b> 40-1 to 40-4		<b>3D.</b> 40-1
	Interpretation of Data			
5.6.3	Analyze the effect a change of graph			
	type has on the interpretation of a			
	set of data.			
•	Interpret data and make predictions		37, 38	
	using circle graphs and scatter plots		<b>SB:</b> 48-2	
	Permutations and Combinations			
5.6.4	Find the number of outcomes for a		76, 77	<b>SB:</b> 58-1
	specific event by constructing		<b>SB:</b> 57-2, 57-3,	
	sample spaces and tree diagrams.		58-2	
	Even a simulation of The event in all			
	Experimental and Theoretical Probability			
5.6.5	Find experimental probability using		75	
	concrete materials.		<b>SB:</b> 57-1, 57-2	
•	Represent the results of simple		73-75	<b>SB:</b> 57-1
	probability experiments as fractions,		<b>SB:</b> 57-1 to 57-3	
	decimals, percents, and ratios to			
	make predictions about future			
	events			
	Statistical Inferences			
5.6.6	Analyze various representations of a			
	set of data to draw conclusions and			
	make predictions.			
•	Describe the limitations of various			76
	graphical representations.			
	PRUBLEM SULVING			

		IM1	IM2	IM3
		<i>Number, Reasoning &amp; Data</i> Student Book Skill Builders (SB)	<i>Fractions, Decimals &amp; Percent</i> Student Book Skill Builders (SB)	<i>Geometry,</i> <i>Measurement,</i> <i>Graphing</i> Student Book Skill Builders (SB)
; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	Students will develop their ability to solve problems by engaging in developmentally appropriate opportunities where there is a need to use various approaches to investigate and understand			
-	- Formulate their own problems			
-	<ul> <li>Find solutions to problems from everyday situations</li> </ul>			
-	<ul> <li>Develop and apply strategies to solve a variety of problems</li> </ul>			
-	<ul> <li>Integrate mathematical reasoning, communication and connections</li> </ul>			
• ()    	Generalize solutions and apply previous knowledge to new problem solving situations.	22-25	13, 14 <b>SB:</b> 7-1	49, 58
] • [ // /	Determine an efficient strategy, verify, interpret, and evaluate the results with respect to the original problem.	29 <b>SB:</b> 45-4	26, 27	39
• / 2 1	Apply problem solving strategies until a solution is found or it is clear that no solution exists.	<b>SB:</b> 45-7		
• I r	Interpret and solve a variety of mathematical problems by paraphrasing.	29 <b>SB:</b> 45-7		
•   i	Identify necessary and extraneous information.	29 <b>SB:</b> 45-7, 45-9, 45-11	<b>SB:</b> 45-7	39 (T.G.)
• (	Check the reasonableness of a solution	29 SB- 45-8	26, 27	
•	Apply technology as a tool in problem solving situations.	<b>SB:</b> 44-6, 50-3	63	
	MATHEMATICAL COMMUNICATION			
	Students will develop their ability to communicate mathematically by solving problems where there is a need to obtain information from the real world through reading, listening, and observing in order to:			
	- Translate information into mathematical language and symbols			

		IM1 Number, Reasoning	IM2 Fractions, Decimals	IM3 <i>Geometry,</i>
		& Data Student Book Skill Builders (SB)	<i>&amp; Percent</i> Student Book Skill Builders (SB)	<i>Measurement,</i> <i>Graphing</i> Student Book Skill Builders (SB)
	- Process information mathematically			
	- Present results in written, oral and visual formats.			
	- Discuss and exchange ideas about mathematics as a part of learning			
	- Read a variety of fiction and nonfiction texts to learn about mathematics			
	- Use mathematical notation to communicate and explain problems.			
•	Use formulas, algorithms, inquiry, and other techniques to solve mathematical problems.	throughout	throughout	throughout
•	Evaluate written and oral presentations in mathematics	throughout	throughout	throughout
•	Identify and translate key words and phrases that imply mathematical operations.	23-25	20, 27	39
•	Model and explain mathematical relationships using oral, written, graphic, and algebraic methods.	throughout	throughout	throughout
•	Use everyday language, both orally and in writing, to communicate strategies an solutions to mathematical problems.	throughout	throughout	throughout
	Mathematical Reasoning			
	Students will develop their ability to reason mathematical by solving problems where there is a need to investigate mathematical ideas and construct their own learning in all content areas in order to:			
	- Reinforce and extend their logical reasoning abilities			
	- Reflect on, clarify, and justify their thinking			
	- Ask questions to extend their thinking			
	<ul> <li>Use patterns and relationships to analyze mathematical situations</li> </ul>			

		IM1	IM2	IM3
		Number, Reasoning & Data Student Book	Fractions, Decimals & Percent Student Book	Geometry, Measurement, Graphing
		Skill Builders (SB)	Skill Builders (SB)	Student Book Skill Builders (SB)
	- Determine relevant, irrelevant, and/or sufficient information to solve mathematical problems			
•	Recognize and apply deductive and inductive reasoning.	73-75 (T.G.)		
•	Review and refine the assumptions and steps used to derive conclusions in mathematical arguments.			22 (T.G.)
•	Justify answers and the steps taken to solve problems with and without manipulatives and physical models.	throughout	throughout	throughout
	MATHEMATICAL CONNECTIONS			
	Students will develop the ability to make mathematical connections by solving problems where there is a need to view mathematics as an integrated whole in order to:			
	- Link new concepts to prior knowledge.			
	<ul> <li>Identify relationships between content strands</li> </ul>			
	- Integrate mathematics with other disciplines.			
	- Allow the flexibility to approach problems in a variety of ways within and beyond the field of mathematics.			
•	Use mathematical ideas from one area of mathematics to explain an idea from another area of mathematics	15	5, 8, 13	38
•	Use manipulatives and physical models to explain the relationships between concepts and procedures.	throughout	throughout	throughout
•	Use the connections among mathematical topics to develop multiple approaches to problems.	12, 40 <b>SB:</b> 45-8	14, 71 <b>SB:</b> 12-9	
•	Apply mathematical thinking and modeling to solve problems that arise in other disciplines, such as rhythm in music and motion in science.	7 <b>SB:</b> 45-5, 45-13	63	60, 61

		IM1	IM2	IM3
		Number, Reasoning	Fractions, Decimals	Geometry,
		& Data	& Percent	Measurement,
		Student Book	Student Book	Graphing
		Skill Builders (SB)	Skill Builders (SB)	Student Book
				Skill Builders (SB)
•	Identify, explain, and apply mathematics in everyday life.	<b>SB:</b> 45-9	<b>SB:</b> 24-3	4, 29