

Name _____

School _____

Town _____

Grade _____

Phone _____

LEARNING RESULTS			DEGREE OF MATCH	0=no link 1=weak link 2=good link 3=strong link
A.	NUMBERS AND NUMBER SENSE Students will understand and demonstrate a sense of what numbers mean and how they are used. Students will be able to:			
A1.	Describe the structure of the real number system and identify its appropriate applications and limitations.			
A2.	Explain what complex numbers (real and imaginary) mean and describe some of their many uses.			
B.	COMPUTATION Students will understand and demonstrate computation skills. Students will be able to:			
B1.	Use various techniques to approximate solutions, determine the reasonableness of answers, and justify the results.			
B2.	Explain operations with number systems other than base ten.			
C.	DATA ANALYSIS AND STATISTICS Students will understand and apply concepts of data analysis. Students will be able to:			
C1.	Determine and evaluate the effect of variables on the results of data collection.			
C2.	Predict and draw conclusions from charts, tables, and graphs that summarize data from practical situations.			

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C3.	Demonstrate an understanding of concepts of standard deviation and correlation and how they relate to data analysis.			
C4.	Demonstrate an understanding of the idea of random sampling and recognition of its role in statistical claims and designs for data collection.			
C5.	Revise studies to improve their validity (e.g., in terms of better sampling, better controls, or better data analysis techniques).			
D.	PROBABILITY Students will understand and apply concepts of probability. Students will be able to:			
D1.	Find the probability of compound events and make predictions by applying probability theory.			
D2.	Create and interpret probability distributions.			
E.	GEOMETRY Students will understand and apply concepts from geometry. Students will be able to:			
E1.	Draw coordinate representations of geometric figures and their transformations.			
E2.	Use inductive and deductive reasoning to explore and determine the properties of and relationships among geometric figures.			
E3.	Apply trigonometry to problem situations involving triangles and periodic phenomena.			
F.	MEASUREMENT			

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	Students will understand and demonstrate measurement skills. Students will be able to:			
F1.	Use measurement tools and units appropriately and recognize limitations in the precision of the measurement tools.			
F2.	Derive and use formulas for area, surface area, and volume of many types of figures.			
G.	PATTERNS, RELATIONS, FUNCTIONS Students will understand that mathematics is the science of patterns, relationships, and functions. Students will be able to:			
G1.	Create a graph to represent a real-life situation and draw inferences from it.			
G2.	Translate and solve a real-life problem using symbolic language.			
G3.	Model phenomena using a variety of functions (linear, quadratic, exponential, trigonometric, etc.).			
G4.	Identify a variety of situations explained by the same type of function.			
H.	ALGEBRA CONCEPTS Students will understand and apply algebraic concepts. Students will be able to:			
H1.	Use tables, graphs, and spreadsheets to interpret expressions, equations, and inequalities.			
H2.	Investigate concepts of variation by using equations, graphs, and data collection.			

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H3.	Formulate and solve equations and inequalities.			
H4.	Analyze and explain situations using symbolic representations.			
I.	DISCRETE MATHEMATICS Students will understand and apply concepts in discrete mathematics. Students will be able to:			
I1.	Use linear programming to find optimal solutions to a system.			
I2.	Use networks to find solutions to problems.			
I3.	Apply strategies from game theory to problem-solving situations.			
I4.	Use matrices as tools to interpret and solve problems.			
J.	MATHEMATICAL REASONING Students will understand and apply concepts of mathematical reasoning. Students will be able to:			
J1.	Analyze situations where more than one logical conclusion can be drawn from data presented.			
K.	MATHEMATICAL COMMUNICATION			

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	Students will reflect upon their understanding of mathematical ideas and relationships. Students will be able to:			
K1.	Restate, create, and use definitions in mathematics to express understanding, classify figures, and determine the truth of a proposition or argument.			
K2.	Read mathematical presentations of topics within the Learning Results with understanding.			