

Appendix I -- FUNMath Curriculum**INTERNATIONAL ACADEMY OF SCIENCE
FUNdamental Mathematics Course Curriculum**

Lecture	Description	Lecture	Description	Lecture	Description
"0"	Introduction & Overview: Building Blocks of Mathematics	29	Percent: Missing Percent, "Is" and "Of"	58	Three-dimensional Figures: Volume
1	Adding, Subtracting, and Estimating Whole Numbers	30	Simple Interest	59	Surface Area
2	Multiplying, Dividing, and Estimating Whole Numbers	31	Applied Percent: Sales Tax, Discount, Percent of Inc. or Dec.	60	Square Roots and the Pythagorean Theorem
3	Divisibility	32	Circle Graphs	61	Circles and Spheres
4	Prime and Composite Numbers	33	Counting Principle and Tree Diagrams	62	Transformations: Reflections, Translations, and Rotations
5	Greatest Common Factor (GCF)	34	Basic Probability	63	Symmetry
6	Prime Factorization	35	Independent and Dependent Events	64	Set Notation and Venn Diagrams
7	Place Value	36	Prediction with Probability	65	Compare and Order Integers
8	Estimating	37	Factorials	66	Absolute Value
9	Order of Operations	38	Permutations: Ordered Subsets	67	Adding Integers
10	Powers of 10 and Estimation	39	Combinations: Unordered Subsets	68	Subtracting Integers
11	Formulas and Variables	40	Mean (Average), Median, Mode, and Range	69	Multiplying and Dividing Integers
12	Ratios, Rates, and Proportions	41	Frequency Tables	70	Order of Operations with Integers
13	Forms of Fractions: Improper and Mixed Numbers	42	Bar and Broken-Line Graphs	71	Zero, Identity, Commutative, Associative, and Distributive
14	Simplifying Fractions: Reducing, Comparing, and Equivalents	43	Other Graphs: Scatter, Stem-and-Leaf, and Box-and-Whisker Plots	72	Basic Graphing: Ordered Pairs and the Coordinate Plane
15	Least Common Multiple (LCM)	44	Reading and Interpreting Graphs	73	Comparing and Ordering Rational Numbers
16	Adding and Subtracting Simple Fractions	45	Misleading Statistics	74	Adding and Subtracting Rational Numbers
17	Adding and Subtracting Mixed Numbers	46	Planes, Points, and Lines	75	Multiplying and Dividing Rational Numbers
18	Multiplying and Dividing Simple Fractions	47	Symbolism and Vectors	76	Expressions vs. Equations
19	Multiplying and Dividing Mixed Numbers	48	Angles	77	Order of Operations: With and Without Variables
20	Adding and Subtracting Decimals	49	Parallel Lines and Transversals	78	Translating Algebraic Words to Symbols
21	Multiplying Decimals	50	Sum of the Angles of a Triangle	79	One-Step Equations
22	Dividing Decimals	51	Classifying Triangles	80	Rational Numbers: Decimals and Fractions
23	Comparing and Ordering Decimals	52	Congruent vs. Similar Triangles	81	Two-Step Equations
24	Dividing By Powers of 10	53	Polygons: Triangles and Quadrilaterals	82	Formulas and Literal Equations
25	Terminating and Repeating Decimals	54	Other Polygons: Regular and Irregular	83	Patterns and Functions
26	Standard and Scientific Notation	55	Angles in Regular Polygons	84	Graphing Straight Lines with Slope as a Rate of Change
27	Metric System	56	Length: Perimeter	85	Basic Inequalities: One-Step and Two-Step Inequalities
28	Forms of Percent: Fractions, Decimals, and Percent	57	Two-dimensional Shapes: Area		