

IMP 9TH GRADE MATH SCOPE AND SEQUENCE

1	1st Week	Addition and Subtraction of Integers	OCTOBER
2		Multiplication and Division of Integers	
3		Order of Operations involving Integers	
4	2nd Week	Evaluation of Simple Expressions	
5		Absolute Value with Integers	
6		Divisibility Rules	
7	3rd Week	Factors and Prime Numbers/Prime Factorization	
8		Multiples and Least Common Multiples	
9		Greatest Common Factor	
REVIEW TEST WEEK 1,2 and 3			
10	4th Week	Simplifying Fractions- Lowest Terms	NOVEMBER
11		Finding Common Denominator-LCM	
12		Addition and Subtraction of Fractions	
13	5th Week	Multiplication and Division of Fractions	
14		Order of Operations involving Fractions	
15		Evaluation of Expressions with Fractions	
16	6th Week	Improper Fractions and Mixed Numbers	
17		Adding Mixed Numbers/Subtracting Mixed Numbers/	
18		Multiplying/Dividing Mixed Numbers	
REVIEW TEST WEEK 4,5 and 6			
19	7th Week	Ratio, Rate, Unit Rate	NOVEMBER
20		Proportion	
21		Word Problems About Rate,Ratio, Proportion	
22	8th Week	Fractions and Percents Conversion	
23		Percent Increase or Decrease	
24		Discount/Interest	
25	9th Week	Word Problems about Percent, Interest Discount	
26		Combining Like Terms	
27		Using Distributive Property in Simplifying Expressions	
REVIEW TEST WEEK 7,8 and 9			
28		Solving One-Step Equations/Solving Two-Step Equations	

29	10th Week	Absolute Value Equations	DECEMBER	
30		Solving Equations with Fractions		
31	11th Week	Solving Equations Involving Distributive		
32		Variable on Both Sides		
33		Variable on Both Sides involving Fractions		
34	12th Week	Variable on Both Sides involving Distributive Property		
35		Equations with Fractional Solutions		
36		Word Problems involving Formulas		
REVIEW TEST WEEK 10,11 and 12				
37	13th Week	Word Problems involving Formulas: Advanced		JANUARY
38		Modeling Two-Step Equations from Word Problems		
39		Number Problems		
40	14th Week	Consecutive Integer Problems		
41		Points, Lines, Planes, and Space		
42		Segments, Rays, and Length		
43	15th Week	Find the Midpoint of Two Points Given		
44		Angles and Measure		
45		Angle Addition Postulate and Angle Bisector		
REVIEW TEST WEEK 13,14 and 15				
46	16th Week	Complementary and Supplementary Angles	FEBRUARY	
47		Vertical Angles		
48		Solving and Graphing Inequalities		
49	17th Week	Scientific Notation-Dividing, Multiplying		
50		Scientific Notation-Powers and Writing		
51		Word Problems		
52	18th Week	The Coordinate System		
53		Graphing Lines/Graphing Inequalities in Two Variables		
54		Using the Graph of a Line to Find Slope		
REVIEW TEST WEEK 16,17 and 18				
55	19th Week	Using Slope-Intercept Form to Graph a Line		
56		Converting to Slope-Intercept Form and Graphing		
57		Using Graphs and Slope-Intercept Form		
58		System of Equations- Solving by Elimination		

59	20th Week	System of Equations- Solving by Substitution	MARCH
60		System of Equations- Solving by Graphing	
61	21st Week	Polynomials-Adding and Subtracting	
62		Polynomials-Multiplying and Dividing	
63		Radical Expressions-Adding Subtracting	
64		Radical Expressions-Multiplying-Dividing	
REVIEW TEST WEEK 19,20 and 21			
65	22nd Week	Direct Variation	
66		Inverse Variation	
67		Powers of Ten	
68		Converting from Scientific to Standard Notation and Vice Versa	
69	23th Week	The Product Rule/Quotient Rule in in Multiplying/Dividing Exponentials	
70		The Power Rule in Exponentials/Exponent Rules	
71		F.O.I.L.	
72		Rules for Finding the G.C.F. of Two Monomials	
73	24th Week	Factoring Out the G.C.F. of Two or more Monomials	
74		Polynomial Equations-Basic Concept-Coefficients	
75		Polynomial Equations	
76		Simplifying Radicals	
REVIEW TEST WEEK 22,23 and 24			
77	25th Week	Adding and Subtracting Radicals	
78		Multiplying Radicals/Dividing Radicals	
79		Bar Graphs/Line Graphs	
80		Circle Graphs/Histograms	
81	26th Week	Word Problems about Mean,Range, Median, and Mode	
82		Vocabulary and Triangle Sum Theorem	
83		Word Problems and Exterior Angle Theorem	
84		Sum of Interior and Exterior Angles	
85	27th Week	Regular Polygons	
86		Isosceles Triangle Theorems	
87		Properties of Parallelograms	
88		Properties of Similar Polygons	
REVIEW TEST WEEK 25,26 and 27			APRIL

89	28th Week	Circles	MAY
90		Arcs and Central Angles/Arcs and Chords	
91		Inscribed Angles	
92		Perimeter	
93	29th Week	Circumference	
94		Word Problems about Circles	
95		Area of Rectangles and Squares	
96		Area of Triangles	
97	30th Week	Area of Parallelograms and Trapezoids	
98		Area of Circles	
99		Volume of Prisms and Pyramids	
100		Volume of Cylinders, Spheres, and Cones	
	REVIEW TEST WEEK 28,29 and 30		

IMP 10TH GRADE MATH SCOPE AND SEQUENCE

1		Finding Common Denominator-LCM	OCTOBER	
2	1st Week	Addition and Subtraction of Fractions		
3		Multiplication and Division of Fractions		
4		Order of Operations involving Fractions		
5	2nd Week	Evaluation of Expressions with Fractions		
6		Mixture Word Problems		
7	3rd Week	Multiplying Mixed Numbers/Dividing Mixed Numbers		
8		Word Problems About Ratio, Proportion and Percent		
9		Fractions and Percents Conversion		
REVIEW TEST WEEK 1,2 and 3				
10	4th Week	Percent Problems/Percent Increase or Decrease		
11		Discount/Interest/Sales Tax		
12		Combining Like Terms		
13	5th Week	Using Distributive Property in Simplifying Expressions	NOVEMBER	
14		Solving One-Step Equations/Solving Two-Step Equations		
15	Absolute Value Equations			
16	6th Week	Solving Equations with Fractions		
17		Solving Equations Involving Distributive		
18		Variable on Both Sides involving Fractions		
REVIEW TEST WEEK 4,5 and 6				
19	7th Week	Variable on Both Sides involving Distributive Property		
20		Equations with Fractional Solutions		
21		Two-Step Equations Word Problems		
22	8th Week	Find the Midpoint of Two Points Given		
23		Angles and Measure		
24		Angle Addition Postulate and Angle Bisector		
25	9th Week	Complementary and Supplementary Angles		
26		Vertical Angles		
27		Given Lines are Parallel		
REVIEW TEST WEEK 7,8 and 9				
28	10th Week	Solving and Graphing Inequalities		
29		Function and Arrow Notation		

30		Evaluation Functions	DECEMBER
31	11th Week	Graphing Linear Equations	
32		Graphing Linear Inequalities	
33		Graphing Linear Absolute Value Equations	
34	12th Week	Graphing Inequalities in Two Variables	
35		Using the Graph of a Line to Find Slope	
36		Using Slope to Graph a Line	
REVIEW TEST WEEK 10,11 and 12			
37	13th Week	Verbal Expressions-1	JANUARY
38		Verbal Expressions-2	
39		Verbal Expressions-3	
40	14th Week	Slope	
41		Word Problems-Distance Rate Time	
42		Word Problems Mixture	
43	15th Week	Word Problems Work Problems	
44		Word Problems-Distance Rate Time	
45		Word Problems Mixture-Work Problems	
REVIEW TEST WEEK 13,14 and 15			
46	16th Week	Direct Variation	FEBRUARY
47		Inverse Variation	
48		Proportion	
49	17th Week	Solving System of Equations By Elimination	
50		Solving System of Equations By Substitution	
51		Solving System of Equations By Graphing	
52	18th Week	Powers of Ten	
53		Converting from Scientific to Standard Notation	
54		Converting from Standard to Scientific Notation	
REVIEW TEST WEEK 16,17 and 18			
55	19th Week	The Product Rule in in Multiplying Exponentials	
56		The Power Rule in Exponentials	
57		The Quotient Rule in Dividing Exponentials	
58	20th Week	Numerical Bases and Exponents of Zero	
59		Combining Exponent Rules	

60		Solving Quadratic Equations by Factoring	MARCH	
61	21st Week	Rules for Finding the G.C.F. of Two Monomials		
62		Factoring Out the G.C.F. of Two or more Monomials		
63		Factoring Quadratics into Two Binomials and then Solve (a=1)		
64		Factoring Quadratics into Two Binomials and then Solve (a not 1)		
REVIEW TEST WEEK 19,20 and 21				
65	22nd Week	Solving Trinomials with Discriminant		
66		Difference of Two Squares		
67		Factoring Out G.C.F. as First Step in Trinomials		
68		Simplifying Rational Expressions		
69	23th Week	Simplifying Radicals		
70		Adding and Subtracting Radicals		
71		Multiplying Radicals/Dividing Radicals		
72		Conjugate and Rationalizing the Denominator		
73	24th Week	Solving Radical Equations by Squaring Both Sides		
74		Solving Quadratic Equations by Square Rooting Both Sides		
75		Graphs of Quadratic Functions and Transformations		
76		Bar Graphs/Line Graphs/Circle Graphs/Histogram		
REVIEW TEST WEEK 22,23 and 24				
77	25th Week	Mean, Range, Median, and Mode		APRIL
78		Simple Probability		
79		Probability of Independent Events/Dependent Events		
80		Tree Diagrams and the Counting Principle		
81	26th Week	Vocabulary and Triangle Sum Theorem		
82		Word Problems and Exterior Angle Theorem		
83		Regular Polygons		
84		Isosceles Triangle Theorems		
85	27th Week	Properties of Parallelograms		
86		Properties of Similar Polygons		
87		Circles/Inscribed Angles		
88		Circumference/Area of Circles		
REVIEW TEST WEEK 25,26 and 27				
89		Area of Rectangles and Squares		

90	28th Week	Advanced Area of Rectangles and Squares	MAY
91		Area of Triangles/Parallelograms and Trapezoids	
92		Volume of Prisms and Pyramids	
93	29th Week	Volume of Cylinders, Spheres, and Cones	
94		The Pythagorean Theorem	
95		Converse of the Pythagorean Theorem	
96		Finding Distance Between Any Two Points	
97	30th Week	30-60-90 degree Triangles	
98		45-45-90 degree Triangles	
99		Unit Circle - Angles, Radian and Degree	
100		Sine, Cosine, and Tangent on Unit Circle	
REVIEW TEST WEEK 28,29 and 30			

IMP 11TH GRADE MATH SCOPE AND SEQUENCE

1		Ratio, Proportion and Percent	OCTOBER
2	1st Week	Fractions and Percents Conversion	
3		Percent Problems/Percent Increase or Decrease	
4		Discount/Interest/Sales Tax Problems	
5	2nd Week	Combining Like Terms	
6		Using Distributive Property in Simplifying Expressions	
7	3rd Week	Solving One-Step-Two-Step-Absolute Value Equations	
8		Variable on Both Sides involving Distributive Property	
9		Word Problems involving Formulas	
REVIEW TEST WEEK 1,2 and 3			
10	4th Week	Word Problems involving Formulas: Advanced	
11		Two-Step Equations Word Problems	
12		Find the Midpoint of Two Points Given	
13	5th Week	Angles and Measure	NOVEMBER
14		Complementary and Supplementary Angles/Vertical Angles/Parallel Lines	
15		Solving and Graphing Inequalities	
16	6th Week	Evaluation Functions	
17		Composite Functions	
18		Graphing Inequalities in Two Variables	
REVIEW TEST WEEK 4,5 and 6			
19	7th Week	Using the Graph of a Line to Find Slope	
20		Using Slope to Graph a Line	
21		Using Coordinates to Find Slope	
22	8th Week	Using Slope to Find Missing Coordinates	
23		Using Slope-Intercept Form to Graph a Line	
24		Converting to Slope-Intercept Form and Graphing	
25	9th Week	Using Graphs and Slope-Intercept Form	
26		Standard Form of Equation of Lines	
27		The Point-Slope Formula	
REVIEW TEST WEEK 7,8 and 9			
28	10th Week	Given Two Points, Finding the Equation of the Line	
29		Parallel - Perpendicular Lines and Slope Relations	

30		Direct Variation/Inverse Variation	DECEMBER
31	11th Week	Solving System of Equations By Elimination	
32		Solving System of Equations By Substitution	
33		Solving System of Equations By Graphing	
34	12th Week	Powers of Ten	
35		Exponentials	
36		Word Problems	
REVIEW TEST WEEK 10,11 and 12			
37	13th Week	Converting from Scientific to Standard Notation	JANUARY
38		Converting from Standard to Scientific Notation	
39		The Product Rule in in Multiplying Exponentials	
40	14th Week	The Power Rule in Exponentials	
41		The Quotient Rule in Dividing Exponentials	
42		Numerical Bases and Exponents of Zero	
43	15th Week	Combining Exponent Rules	
44		F.O.I.L.	
45		Rules for Finding the G.C.F. of Two Monomials	
REVIEW TEST WEEK 13,14 and 15			
46	16th Week	Factoring Out the G.C.F. of Two or more Monomials	FEBRUARY
47		Factoring Quadratics into Two Binomials and then Solve (a=1)	
48		Factoring Quadratics into Two Binomials and then Solve (a not 1)	
49	17th Week	Solving Trinomials with Discriminant	
50		Difference of Two Squares	
51		Factoring Out G.C.F. as First Step in Trinomials	
52	18th Week	Simplifying Rational Expressions	
53		Polynomial Equations-Adding Subtracting	
54		Polynomial Equations-Factoring	
REVIEW TEST WEEK 16,17 and 18			
55	19th Week	Simplifying, Adding and Subtracting Radicals	
56		Multiplying Radicals/Dividing Radicals	
57		Conjugate and Rationalizing the Denominator	
58	20th Week	Solving Radical Equations by Squaring Both Sides	
59		Solving Quadratic Equations by Square Rooting Both Sides	

60		Graphs of Quadratic Functions and Transformations		
61	21st Week	Arithmetic Sequence	MARCH	
62		Geometric Sequence		
63		Arithmetic Series		
64		Geometric Series		
	REVIEW TEST WEEK 19,20 and 21			
65	22nd Week	Simple Probability		
66		Probability of Independent Events		
67		Probability of Dependent Events		
68		Tree Diagrams and the Counting Principle		
69	23th Week	Vocabulary and Triangle Sum Theorem		
70		Word Problems and Exterior Angle Theorem		
71		Sum of Interior and Exterior Angles		
72		Regular Polygons		
73	24th Week	Isosceles Triangle Theorems		
74		Properties of Parallelograms		
75		Properties of Similar Polygons		
76		Angle-Angle Similarity Postulate		
	REVIEW TEST WEEK 22,23 and 24			
77	25th Week	Circles	APRIL	
78		Arcs and Central Angles/Arcs and Chords		
79		Inscribed Angles		
80		Circumference/Area of Circles		
81	26th Week	Area of Triangles		
82		Area of Parallelograms and Trapezoids		
83		Volume of Prisms and Pyramids		
84		Volume of Cylinders, Spheres, and Cones		
85	27th Week	The Pythagorean Theorem		
86		Converse of the Pythagorean Theorem		
87		Finding Distance Between Any Two Points		
88		30-60-90 degree Triangles		
	REVIEW TEST WEEK 25,26 and 27			
89		45-45-90 degree Triangles		

90	28th Week	Unit Circle - Angles, Radian and Degree	MAY
91		Sine, Cosine, and Tangent on Unit Circle	
92		Sine, Cosine, and Tangent in a Right Triangle (SOH COH TOA)	
93	29th Week	Trigonometric Identities	
94		Graphs of Trigonometric Functions	
95		Period, Amplitude of Periodic Functions	
96		Inverse Trigonometric Functions	
97	30th Week	Properties of Logarithm	
98		Common Logarithm	
99		The number "e"	
100		Logarithmic Equations	
REVIEW TEST WEEK 28,29 and 30			