**2017-18 Mathematics | Integrated Math I | MNPS Year-at-a-Glance**

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|  | **Unit Title** | **Standards** | **Summary of Standard** |
| **Quarter 1** | **Unit 0**Foundationsof Algebra (Function-Based) | **M1.A.CED.A.1** **M1.A.REI.A.1****M1.A.CED.A.4** **M1.A.CED.A.3**M2.A.REI.A.1 | Write Equations and InequalitiesSolving Equations and InequalitiesRearrange Equations and FormulasA Graph is a Set of All SolutionsExplaining Each Step |
| **Unit 1**Applications and Interpretationsof Functions | **M1.F.IF.A.1****M1.F.IF.A.2****M1.A.REI.C.3****M1.F.IF.B.3**M1.F.IF.C.6M1.N.Q.A.1M1.N.Q.A.2M1.N.Q.A.3**M1.F.IF.B.4****M1.F.IF.B.5**M1.F.IF.C.7 | Function NotationEvaluate Functions in ContextA Graph is a Set of All Solutions10 Features of a GraphGraph Functions (With Calculator)Choose Appropriate UnitsJustify Appropriate QuantitiesChoose Accurate LimitationsInterpreting the DomainAverage Rate of ChangeRepresentation of Functions |
| **Quarter 2** | **Unit 2**Parameters of Working with Linear Functions and Inequalities | M1.N.Q.A.1M1.N.Q.A.2M1.N.Q.A.3**M1.A.CED.A.2** **M1.A.CED.A.3****M1.A.SSE.A.1a**M1.F.IF.C.6aM1.F.IF.C.7M1.F.LE.A.2M1.F.LE.B.4**M1.A.REI.C.3**M1.S.ID.B.4b**M1.S.ID.C.5** | Choose Appropriate UnitsJustify Appropriate QuantitiesChoose Accurate LimitationsSystems with 2 VariablesConstraints; Viable OptionsInterpret Parts of an ExpressionGraph with Intercepts, Max/MinRepresentations of FunctionsWrite Functions and SequencesInterpret Contextual ParametersA Graph is a Set of All SolutionsWrite LOBF Equation from ScatterInterpret LOBF in Context |
| **Unit 3**Creating andUsing Exponential Models to Solve Problems | M1.N.Q.A.1M1.N.Q.A.2M1.N.Q.A.3**M1.A.CED.A.1****M1.A.SSE.A.1a M1.A.SSE.A.1b** **M1.A.SSE.B.2a** **M1.A.REI.C.4****M1.F.IF.A.2****M1.F.IF.B.3**M1.F.IF.C.7 | Choose Appropriate UnitsJustify Appropriate QuantitiesChoose Accurate LimitationsWrite Equations and InequalitiesInterpret Parts of an Expression (Lin)Interpret Parts of an Expression (Exp)Rewrite Exponential ExpressionsInterpret Solutions to SystemsEvaluate Functions in Context10 Features of a GraphRepresentations of Functions |
| **Quarter 2** | **Unit 4**Comparing Linear and Exponential Models to Solve Problems | **M1.F.BF.A.1a****M1.F.BF.A.2**M1.F.LE.A.1M1.F.LE.A.2M1.F.LE.A.3M1.F.LE.B.4M1.S-ID.B.4a | Explicit Expressions and RecursionArithmetic and Geometric SequencesLinear vs. Exponential FunctionsWrite Functions and SequencesExponential Will Exceed LinearInterpret Contextual ParametersUse LOBFs for Regression |
| **Quarter 3** | **Unit 5**Transformations asFunctions on the Coordinate Plane | M1.G.CO.A.1M1.G.CO.A.2M1.G.CO.A.3M1.G.CO.A.4M1.G.CO.A.5**M1.G.CO.B.6M1.F.IF.A.1****M1.F.IF.A.2** | Geometry Vocabulary/DefinitionsFunctions for Image CoordinatesDescribe Pre-Image to ImageDefine TransformationsGiven Pre-Image, Draw ImagePredict Effects of Rigid MotionFunction NotationEvaluate Functions in Context |
| **Unit 6**Rigid Motionand Triangle Congruence | M1.G.CO.A.1**M1.G.CO.B.7M1.G.CO.B.8M1.G.CO.C.10**M2.A.REI.A.1 | Geometry Vocabulary/DefinitionsTriangles: CPCTCTriangles: SSS/SAS/ASA/AASTriangle TheoremsExplaining Each Step |
| **Unit 7**Geometric Proof and Quadrilaterals | **M1.G.CO.C.9M1.G.CO.C.11**M2.A.REI.A.1 | Line and Angle TheoremsParallelogram TheoremsExplaining Each Step |
| **Quarter 4** | **Unit 8**Using Systems of Linear Equations and Inequalitiesto Solve Problems | **M1.A.REI.B.2****M1.A.REI.C.3****M1.A.REI.C.4****M1.A.REI.C.5M1.A.CED.A.3**M1.G.CO.A.1 | Write and Solve a System in ContextA Graph is a Set of All SolutionsInterpret Solutions to SystemsGraph Systems of InequalitiesA Graph is a Set of All SolutionsGeometry Vocabulary/Definitions |
| **Unit 9**Collect, Interpret, Analyze, and Summarize Data | M1.N.Q.A.1M1.S.ID.A.1M1.S.ID.A.2M1.S.ID.A.3M1.S.ID.C.5M1.S.ID.C.6M1.S.ID.C.7 | Choose Appropriate UnitsDot/Box/Stem Plots and HistogramsCompare Center and SpreadInterpret Center and SpreadInterpret LOBF in ContextDetermine Correlation CoefficientCorrelation vs. Causation |