**Math 6 Year-At-A-Glance**

**Big Ideas Correlated with Common Core and NAD Standards**

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| **Pacing** | **Mathematical Essential****Questions** | **Spiritual Essential****Questions** | **Common****Core****Standards** | **NAD****Standards** | **Topics** | **Textbook****Reference** | **Connect****To** **Previous** | **Resources with links** |
| Q-1a | How are mathematical principles useful in problem solving? | How are spiritual principles useful in problem solving? | 6.NS.46.SP.1,2,3,4 | 6.M.16.DSP.1,2 | Basic Skills, (+/- Decimals and Fractions, GCF, LCM) Solving Problems and Test Preparation | ITBS (Practice Workbook) and ixl.comGOM-1.2 thru 1.6 | 5.MBT.45.MBT.65.MBT.7BIGR: Skills Review Handbook, Basic Skills Handbook | BIGR: Game Closet, ReviewBIGR: Intensive Intervention ActivitiesMath RAFTS:<http://www.writingfix.com/wac/writing_across_curriculum_rafts_math.htm> |
| Q-1a | How do you apply mathematical properties to simplify expressions? | How do properties of operations help us order and compare things in God’s world? | 6.EE.16.EE.2a,b,c6.EE.3,4,6 | 6.NO.26.OAT.1 | Expressions and Number Properties | BIM Ch.1 | 6.G.15.OA.1 | Distributive Property <http://www.youtube.com/watch?v=QzwvSp-ZtBY> |
| Q-1b | How do you solve multiplication and division problems involving fractions?  | How do fractions help us understand God’s world? | 6.NS.16.NS.2 | 6.NO.16.NO.4 | Multiplying and Dividing Fractions | BIM Ch.2 | 5.NF.1,3,4,74.NF.3c | BIGR: Game Closet, Operations Fractions, Fun with Fractions<http://www.mathplayground.com/howto_divide_fractions.html> |
| Q-2a | How do you solve multiplication and division problems involving decimals? | How does the use of the number system help us understand the world and all created things? | 6.NS.26.NS.3 | 6.NO.1 | Multiplying and DividingDecimals | BIM Ch.3 | 5.NBT.55.NBT.65.NBT.7 | BIGR: Game Closet, Operations Fractions, Amazing DecimalsDividing Decimals -Activity 3<http://illuminations.nctm.org/LessonDetail.aspx?id=L252> |
| Q-2b | How do you compare the relationship between fractions, decimals, and percent?How do you solve problems using percent? | How do relationships and their parts help us understand the world and appreciate God’s creation? | 6.RP.1,3c6.NS.56.NS.6a,b,c6.NS.7a,c,d | 6.NO.3 | Percent, Fractions, and Decimals | BIM Ch.4 | 5.NBT.3a4.NF.76.NS.2 | Fractions, Decimals, Percent<http://msmathmadness.blogspot.com/2012/07/made-4-math-monday-2.htm>BIGR: Interactive Activities, Ordering on # Line |
| Q-3a | How do you solve problems using ratio and rate?How can you analyze and determine the measures of central tendency? | How do location and the number system help us appreciate God’s creation? | 6.RP.1,26.RP.3b,d6.SP.5a,b,c,d | 6.NO.56.DSP.2 | Rational NumbersCoordinate Plane | BIM Add’l Topic 1,2,3,4 | 2.MD.65.G.14.MD.3 | BIGR: Game Closet, Coordinate Plane, Six in a RowCoordinate practice<http://fcit.usf.edu/fcat8m/resource/activity/planet.htm><http://resources.oswego.org/games/BillyBug2/bug2.html> |
| Q-3b | How do you solve real-life mathematical problems involving area and circumference of a circle? How do you find the area and perimeter of composite figures? | How do the attributes of measurement reveal God’s accuracy, dependability, and precision? | 6.EE.2c6.G.1 | 6.OAT.16.GEO.1 | Ratio, Rate, and Data Analysis | BIM Ch.5 | 4.NF.14.NBT.4 | Rates and Ratios<http://illuminations.nctm.org/LessonDetail.aspx?id=L781> |
| Q-4a | How do you find the area of 2-D figures? | What properties of 2-D figures remind us of God’s design? | 6.EE.2b,5,76.G.1,2,4 | 6.OAT.16.GEO.1 | Circles and Area | BIM Ch.6 | 4.G.26.EE.1 | Area and Perimeter of Regular and Irregular Polygons<http://www.youtube.com/watch?v=97gIIl0NPBY>Area of the Circle <http://www.youtube.com/watch?v=YokKp3pwVFc>Area of Rectangle, Parallelogram, and Triangle<http://www.youtube.com/watch?v=vQC10PPmuoA> |
| Q-4a | How do you write, graph, and solve equations? | How can objects be represented to help us understand the variety of God’s creation? | 6.EE.56.EE.8 | 6.OAT.1 | Equations | BIM Ch.7 | 6.EE.2c6.EE.2a | Equations<http://pinterest.com/pin/174725660513660736/> |
| Q-4b | How do you define, evaluate, compare, and use functions to model representations between quantities? | How does the consistency of proportional principles continue to demonstrate the orderliness and precision of God? | 6.EE.9 | 6.OAT.2 | Inequalities | BIM Ch.8 | 4.NF.15.NBT.3b | BIGR: Interactive Activities, Inequality ExplorerSolving Inequalities<http://www.mathsisfun.com/algebra/inequality-solving.html>Inequality Bingo<http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=4&ved=0CD0QFjAD&url=http%3A%2F%2Fwww.loganschools.org%2Fcurriculum%2Fmathematics%2Fequationsbingo.doc&ei=7IruUa2-BobC9QSfsoDgAQ&usg=AFQjCNF7hsJPOQgFNHvz37rE6elL_rY7SQ&bvm=bv.49478099,d.eWU> |
| Q-4b | How do you represent, graph, and analyze quantitative relationships? | How can objects be represented to help us understand the variety of God’s creation? | 6.G.36.NS.5,6.NS.6b,c6.NS.8 | 6.NO.3.6.GEO.1 | Tables, Graphs, and Functions | BIM Ch.9 | 4.OA.55.G.1 | <http://illuminations.nctm.org/LessonDetail.aspx?id=L839> |

Websites: Khan Academy.com, IXL.com, mathplayground.com, Brainpop.com, Quia.com

Apps: Educreations, Showme, My Dear Aunt Sally, Hands-On Equations, YourTeacher (Math), revised 7/18/13