# Common Core State Standards Alignment for Challenging Units for Gifted Learners: Math

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<tr>
<th>Chapter</th>
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| Chapter 3 - Money Managers: Investments, Risk, and Payoffs | 6.RP.A Understand ratio concepts and use ratio reasoning to solve problems.  
6.NS.C Apply and extend previous understandings of numbers to the system of rational numbers.  
6.EE.A Apply and extend previous understandings of arithmetic to algebraic expressions.  
6.EE.B Reason about and solve one-variable equations and inequalities.  
6.SP.B Summarize and describe distributions.  
7.RP.A Analyze proportional relationships and use them to solve real-world and mathematical problems.  
7.NS.A Apply and extend previous understandings of operations with fractions.  
7.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.  
8.SP.A Investigate patterns of association in bivariate data. |
| Chapter 4 - Building a Miniature Golf Course: S.T.E.A.M. | 6.RP.A Understand ratio concepts and use ratio reasoning to solve problems.  
6.EE.A Apply and extend previous understandings of arithmetic to algebraic expressions.  
6.EE.B Reason about and solve one-variable equations and inequalities.  
6.G.A Solve real-world and mathematical problems involving area, surface area, and volume. |
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| Chapter 4 - Building a Miniature Golf Course: S.T.E.A.M., *continued* | 7.RP.A Analyze proportional relationships and use them to solve real-world and mathematical problems.  
7.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.  
7.G.A Draw construct, and describe geometrical figures and describe the relationships between them.  
7.G.B Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.  
8.G.A Understand congruence and similarity using physical models, transparencies, or geometry software. |
| Chapter 5 - Calculating Probability: Building a Funfair | 6.RP.A Understand ratio concepts and use ratio reasoning to solve problems.  
7.RP.A Analyze proportional relationships and use them to solve real-world and mathematical problems.  
7.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.  
7.SP.A Use random sampling to draw inferences about a population.  
7.SP.B Draw informal comparative inferences about two populations.  
7.SP.C Investigate chance processes and develop, use, and evaluate probability models. |
6.SP.A Develop understanding of statistical variability.  
6.SP.B Summarize and describe distributions.  
7.RP.A Analyze proportional relationships and use them to solve real-world and mathematical problems.  
7.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.  
7.SP.A Use random sampling to draw inferences about a population.  
7.SP.B Draw informal comparative inferences about two populations.  
8.SP.A Investigate patterns of association in bivariate data.  
HSS-IC.B Make inferences and justify conclusions from sample surveys, experiments, and observational studies. |

**Key:** RP = Ratios & Proportions; NS = The Number System; EE = Expressions & Equations; G = Geometry; SP = Statistics & Probability; IC = Inferences & Conclusions