

Correlation of Common Core Standards for Mathematics with Project Learning Tree's Energy & Society Activity Guide (Grades 5th-7th)

Common Core Mathematics Standards	Energy & Society Activity Guide
GRADE 5	
Operations and Algebraic Thinking 5.OA	
1. Write and interpret numerical expressions.	Activity #5: In the Driver's Seat
2. Analyze patterns and relationships.	
Numbers and Operations in Base Ten 5.NBT	
1. Understand the place value system.	
2. Perform operations with multi-digit whole numbers and with decimals to hundredths.	
Number and Operations—Fractions 5.NF	
1. Use equivalent fractions as a strategy to add and subtract fractions.	
2. Apply and extend previous understandings of multiplication and division to multiply and divide fractions.	
Measurement and Data 5.MD	
1. Convert like measurement units within a given measurement system.	
2. Represent and interpret data.	
3. Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.	
Geometry 5.G	
1. Graph points on the coordinate plane to solve real-world and mathematical problems.	
2. Classify two-dimensional figures into categories based on their properties.	

Common Core Mathematics Standards	Energy & Society Activity Guide
GRADE 6	
Ratios and Proportional Relationships 6.RP	
1. Understand ratio concepts and use ratio reasoning to solve problems.	
The Number System 6.NS	
1. Apply and extend previous understandings of multiplication and division to divide fractions by fractions.	
2. Compute fluently with multi-digit numbers and find common factors and multiples.	
3. Apply and extend previous understandings of numbers to the system of rational numbers.	
Expressions and Equations 6.EE	
1. Apply and extend previous understandings of arithmetic to algebraic expressions.	
2. Reason about and solve one-variable equations and inequalities.	
3. Represent and analyze quantitative relationships between dependent and independent variables.	
Geometry 6.G	
1. Solve real-world and mathematical problems involving area, surface area, and volume.	
Statistics and Probability 6.SP	
1. Develop understanding of statistical variability.	Activity #5: In the Driver's Seat
2. Summarize and describe distributions.	Activity #5: In the Driver's Seat

Common Core Mathematics Standards	Energy & Society Activity Guide
GRADE 7	
Ratios and Proportional Relationships 7.RP	
1. Analyze proportional relationships and use them to solve real-world and mathematical problems.	
The Number System 7.NS	
1. Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.	
Expressions and Equations 7.EE	
1. Use properties of operations to generate equivalent expressions.	
2. Solve real-life and mathematical problems using numerical and algebraic expressions and equations.	
Geometry 7.G	
1. Draw, construct, and describe geometrical figures and describe the relationships between them.	
2. Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.	
Statistics and Probability 7.SP	
1. Use random sampling to draw inferences about a population.	Activity #5: In the Driver's Seat
2. Draw informal comparative inferences about two populations.	Activity #5: In the Driver's Seat
3. Investigate chance processes and develop, use, and evaluate probability models.	

End of Document