



**Correlation of Common Core State Standards for
English Language Arts and
Mathematics with
PLT's *Energy & Society* Activities**

Project Learning Tree (PLT) activities will help you address many Common Core Language Arts and Mathematics standards. PLT's correlation documents allow you to easily find the PLT activities that address specific standards for specific grades.

The following correlations indicate ways that Common Core standards may be addressed using PLT's *Energy & Society Activity Guide*. They reference each activity as they are written in the guide and do not reflect activity modifications and enhancements. In addition, if a Common Core standard is addressed in the background information for an activity, but not in the activity itself, the correlation to that standard is not listed in the following charts.

To view the complete Common Core State Standards for both English Language Arts and Mathematics, please visit <http://www.corestandards.org/>.

Correlation of Common Core Standards for English Language Arts & Literacy in History/Social Studies, Science, and Technical Subjects with Project Learning Tree's Energy & Society Activity Guide

Anchor Standards for Reading	Energy & Society Activity Guide		
Key Ideas and Details:	Grades K-2	Grades 3-5	Grades 6-8
1. Read closely to determine what the text says explicitly and to make logical inferences from it; cite specific textual evidence when writing or speaking to support conclusions drawn from the text.	Reading Standard for Informational Text #1 (RI 1): None	Reading Standard for Informational Text #1 (RI 1): Activity #2: May the Source Be with You	Reading Standard for Informational Text #1 (RI 1): Activity #2: May the Source Be with You
2. Determine central ideas or themes of a text and analyze their development; summarize the key supporting details and ideas.	Reading Standard for Informational Text #2 (RI 2): None	Reading Standard for Informational Text #2 (RI 2): Activity #2: May the Source Be with You	Reading Standard for Informational Text #2 (RI 2): Activity #2: May the Source Be with You
3. Analyze how and why individuals, events, and ideas develop and interact over the course of the text.	Reading Standard for Informational Text #3 (RI 3): None	Reading Standard for Informational Text #3 (RI 3): None	Reading Standard for Informational Text #3 (RI 3): None

Craft and Structure:	Grades K-2	Grades 3-5	Grades 6-8
<p>4. Interpret words and phrases as they are used in a text, including determining technical, connotative, and figurative meanings, and analyze how specific word choices shape meaning or tone.</p>	<p>Reading Standard for Informational Text #4 (RI 4): None</p>	<p>Reading Standard for Informational Text #4 (RI 4): Activity #2: May the Source Be with You</p>	<p>Reading Standard for Informational Text #4 (RI 4): Activity #2: May the Source Be with You</p>
<p>5. Analyze the structure of texts, including how specific sentences, paragraphs, and larger portions of the text (e.g., a section, chapter, scene, or stanza) relate to each other and the whole.</p>	<p>Reading Standard for Informational Text #5 (RI 5): None</p>	<p>Reading Standard for Informational Text #5 (RI 5): Activity #2: May the Source Be with You</p>	<p>Reading Standard for Informational Text #5 (RI 5): Activity #2: May the Source Be with You</p>
<p>6. Assess how point of view or purpose shapes the content and style of text.</p>	<p>Reading Standard for Informational Text #6 (RI 6): None</p>	<p>Reading Standard for Informational Text #6 (RI 6): Activity #2: May the Source Be with You</p>	<p>Reading Standard for Informational Text #6 (RI 6): Activity #2: May the Source Be with You</p>

Integration of Knowledge and Ideas:	Grades K-2	Grades 3-5	Grades 6-8
7. Integrate and evaluate content presented in diverse media and formats, including visually and quantitatively, as well as in words.	Reading Standard for Informational Text #7 (RI 7): None	Reading Standard for Informational Text #7 (RI 7): Activity #1: Energy Detectives; Activity #2: May the Source Be with You	Reading Standard for Informational Text #7 (RI 7): Activity #1: Energy Detectives; Activity #2: May the Source Be with You
8. Delineate and evaluate the argument and specific claims in a text, including the validity of the reasoning as well as the relevance and sufficiency of the evidence.	Reading Standard for Informational Text #8 (RI 8): None	Reading Standard for Informational Text #8 (RI 8): Activity #1: Energy Detectives – Enrichment #4	Reading Standard for Informational Text #8 (RI 8): Activity #1: Energy Detectives – Enrichment #4
9. Analyze how two or more texts address similar themes or topics in order to build knowledge or to compare the approaches the authors take.	Reading Standard for Informational Text #9 (RI 9): None	Reading Standard for Informational Text #9 (RI 9): Activity #1: Energy Detectives – Enrichment #4	Reading Standard for Informational Text #9 (RI 9): Activity #1: Energy Detectives – Enrichment #4
Range of Reading and Level of Text Complexity:	Grades K-2	Grades 3-5	Grades 6-8
10. Read and comprehend complex literary and informational texts independently and proficiently.	Reading Standard for Informational Text #10 (RI 10): Not applicable	Reading Standard for Informational Text #10 (RI 10): Not applicable	Reading Standard for Informational Text #10 (RI 10): Not applicable

Anchor Standards for Writing	PLT Energy & Society Activity Guide <i>(Numbers correspond to the activity numbers in the PLT Guide)</i>		
Text Types and Purposes:	Grades K-2	Grades 3-5	Grades 6-8
1. Write arguments to support claims in an analysis of substantive topics or texts, using valid reasoning and relevant and sufficient evidence.	Writing Standard #1 (W 1): None	Writing Standard #1 (W 1): Activity #1: Energy Detectives – Enrichment #4	Writing Standard #1 (W 1): Activity #1: Energy Detectives – Enrichment #4
2. Write informative/explanatory texts to examine and convey complex ideas and information clearly and accurately through the effective selection, organization, and analysis of content.	Writing Standard #2 (W 2): None	Writing Standard #2 (W 2): Activity #2: May the Source Be with You	Writing Standard #2 (W 2): Activity #2: May the Source Be with You
3. Write narratives to develop real or imagined experiences or events using effective technique, well-chosen details, and well-structured event sequences	Writing Standard #3 (W 3): Activity #4: What Powers the Move? – Enrichment #5	Writing Standard #3 (W 3): Activity #2: May the Source Be with You – Enrichment #3 Activity #4: What Powers the Move? – Enrichment #5	Writing Standard #3 (W 3): Activity #2: May the Source Be with You – Enrichment #3 Activity #4: What Powers the Move? – Enrichment #5

Production and Distribution of Writing:	Grades K-2	Grades 3-5	Grades 6-8
4. Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	Not applicable	Writing Standard #4 (W 4): Activity #1: Energy Detectives Activity #2: May the Source Be with You	Writing Standard #4 (W 4): Activity #1: Energy Detectives Activity #2: May the Source Be with You
5. Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach.	Writing Standard #5 (W 5): None	Writing Standard #5 (W 5): Activity #1: Energy Detectives Activity #2: May the Source Be with You Activity #4: What Powers the Move?	Writing Standard #5 (W 5): Activity #1: Energy Detectives Activity #2: May the Source Be with You Activity #4: What Powers the Move?
6. Use technology, including the Internet, to produce and publish writing and to interact and collaborate with others.	Writing Standard #6 (W 6): None	Writing Standard #6 (W 6): Activity #2: May the Source Be with You	Writing Standard #6 (W 6): Activity #2: May the Source Be with You

Research to Build and Present Knowledge:	Grades K-2	Grades 3-5	Grades 6-8
<p>7. Conduct short as well as more sustained research projects based on focused questions, demonstrating understanding of the subject under investigation.</p>	<p>Writing Standard #7 (W 7): None</p>	<p>Writing Standard #7 (W 7):</p> <p>Activity #1: Energy Detectives – Activity and Enrichment #4</p> <p>Activity #2: May the Source Be with You</p> <p>Activity #4: What Powers the Move? – Enrichment 3</p> <p>Activity #5: In the Driver’s Seat</p>	<p>Writing Standard #7 (W 7):</p> <p>Activity #1: Energy Detectives – Activity and Enrichment #4</p> <p>Activity #2: May the Source Be with You</p> <p>Activity #4: What Powers the Move? – Enrichment 3</p> <p>Activity #5: In the Driver’s Seat</p>
<p>8. Gather relevant information from multiple print and digital sources, assess the credibility and accuracy of each source, and integrate the information while avoiding plagiarism.</p>	<p>Writing Standard #8 (W 8): None</p>	<p>Writing Standard #8 (W 8):</p> <p>Activity #1: Energy Detectives – Activity and Enrichment #4</p> <p>Activity #2: May the Source Be with You</p> <p>Activity #4: What Powers the Move? – Enrichment 3</p> <p>Activity #5: In the Driver’s Seat</p>	<p>Writing Standard #8 (W 8):</p> <p>Activity #1: Energy Detectives – Activity and Enrichment #4</p> <p>Activity #2: May the Source Be with You</p> <p>Activity #4: What Powers the Move? – Enrichment 3</p> <p>Activity #5: In the Driver’s Seat</p>

Research to Build and Present Knowledge:	Grades K-2	Grades 3-5	Grades 6-8
9. Draw evidence from literary or informational texts to support analysis, reflection, and research.	Not applicable	<p>Writing Standard #9 (W 9):</p> <p>Activity #1: Energy Detectives – Enrichment #4</p> <p>Activity #2: May the Source Be with You</p> <p>Activity #4: What Powers the Move? – Enrichment 3</p> <p>Activity #5: In the Driver’s Seat</p>	<p>Writing Standard #9 (W 9):</p> <p>Activity #1: Energy Detectives – Enrichment #4</p> <p>Activity #2: May the Source Be with You</p> <p>Activity #4: What Powers the Move? – Enrichment 3</p> <p>Activity #5: In the Driver’s Seat</p>
Range of Writing:	Grades K-2	Grades 3-5	Grades 6-8
10. Write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences.	Not applicable	<p>Writing Standard #10 (W 10):</p> <p>Activity #1: Energy Detectives</p> <p>Activity #2: May the Source Be with You</p> <p>Activity #4: What Powers the Move?</p> <p>Activity #5: In the Driver’s Seat</p>	<p>Writing Standard #10 (W 10):</p> <p>Activity #1: Energy Detectives</p> <p>Activity #2: May the Source Be with You</p> <p>Activity #4: What Powers the Move?</p> <p>Activity #5: In the Driver’s Seat</p>

Anchor Standards for Speaking and Listening	PLT Energy & Society Activity Guide <i>(Numbers correspond to the activity numbers in the PLT Guide)</i>		
Comprehension and Collaboration:	Grades K-2	Grades 3-5	Grades 6-8
1. Prepare for and participate effectively in a range of conversations and collaborations with diverse partners, building on others' ideas and expressing their own clearly and persuasively.	Speaking & Listening Standard #1 (SL 1): Activity #1: Energy Detectives Activity #2: May the Source Be with You Activity #4: What Powers the Move?	Speaking & Listening Standard #1 (SL 1): Activity #1: Energy Detectives Activity #2: May the Source Be with You Activity #4: What Powers the Move? Activity #5: In the Driver's Seat	Speaking & Listening Standard #1 (SL 1): Activity #1: Energy Detectives Activity #2: May the Source Be with You Activity #4: What Powers the Move? Activity #5: In the Driver's Seat
2. Integrate and evaluate information presented in diverse media and formats, including visually, quantitatively, and orally.	Speaking & Listening Standard #2 (SL 2): Activity #1: Energy Detectives Activity #2: May the Source Be with You Activity #4: What Powers the Move?	Speaking & Listening Standard #2 (SL 2): Activity #1: Energy Detectives Activity #2: May the Source Be with You Activity #4: What Powers the Move? Activity #5: In the Driver's Seat	Speaking & Listening Standard #2 (SL 2): Activity #1: Energy Detectives Activity #2: May the Source Be with You Activity #4: What Powers the Move? Activity #5: In the Driver's Seat

Comprehension and Collaboration:	Grades K-2	Grades 3-5	Grades 6-8
<p>3. Evaluate a speaker’s point of view, reasoning, and use of evidence and rhetoric.</p>	<p>Speaking & Listening Standard #3 (SL 3):</p> <p>Activity #1: Energy Detectives</p> <p>Activity #2: May the Source Be with You</p> <p>Activity #4: What Powers the Move?</p>	<p>Speaking & Listening Standard #3 (SL 3):</p> <p>Activity #1: Energy Detectives</p> <p>Activity #2: May the Source Be with You</p> <p>Activity #4: What Powers the Move?</p>	<p>Speaking & Listening Standard #3 (SL 3):</p> <p>Activity #1: Energy Detectives</p> <p>Activity #2: May the Source Be with You</p> <p>Activity #4: What Powers the Move?</p>
Presentation of Knowledge and Ideas:	Grades K-2	Grades 3-5	Grades 6-8
<p>4. Present information, findings, and supporting evidence such that listeners can follow the line of reasoning and the organization, development, and style are appropriate to task, purpose, and audience.</p>	<p>Speaking & Listening Standard #4 (SL 4):</p> <p>Activity #1: Energy Detectives</p> <p>Activity #2: May the Source Be with You</p> <p>Activity #4: What Powers the Move?</p>	<p>Speaking & Listening Standard #4 (SL 4):</p> <p>Activity #1: Energy Detectives</p> <p>Activity #2: May the Source Be with You</p> <p>Activity #4: What Powers the Move?</p>	<p>Speaking & Listening Standard #4 (SL 4):</p> <p>Activity #1: Energy Detectives</p> <p>Activity #2: May the Source Be with You</p> <p>Activity #4: What Powers the Move?</p>

Presentation of Knowledge and Ideas:	Grades K-2	Grades 3-5	Grades 6-8
<p>5. Make strategic use of digital media and visual displays of data to express information and enhance understanding of presentations.</p>	<p>Speaking & Listening Standard #5 (SL 5):</p> <p>Activity #2: May the Source Be with You</p>	<p>Speaking & Listening Standard #5 (SL 5):</p> <p>Activity #2: May the Source Be with You</p> <p>Activity #4: What Powers the Move?</p>	<p>Speaking & Listening Standard #5 (SL 5):</p> <p>Activity #2: May the Source Be with You</p> <p>Activity #4: What Powers the Move?</p>
<p>6. Adapt speech to a variety of contexts and communicative tasks, demonstrating command of formal English when indicated or appropriate.</p>	<p>Speaking & Listening Standard #6 (SL 6):</p> <p>Activity #1: Energy Detectives</p> <p>Activity #2: May the Source Be with You</p> <p>Activity #4: What Powers the Move?</p>	<p>Speaking & Listening Standard #6 (SL 6):</p> <p>Activity #1: Energy Detectives</p> <p>Activity #2: May the Source Be with You</p> <p>Activity #4: What Powers the Move?</p>	<p>Speaking & Listening Standard #6 (SL 6):</p> <p>Activity #1: Energy Detectives</p> <p>Activity #2: May the Source Be with You</p> <p>Activity #4: What Powers the Move?</p>

Standards for Literacy in History/Social Studies, Science, and Technical Subjects Grades 6-8	
Reading Standards for Literacy in History/Social Studies: Grades 6-8 (RH)	PLT Energy & Society Activity Guide <i>(Numbers correspond to the activity numbers in the PLT Guide)</i>
Key Ideas and Details	
1. Cite specific textual evidence to support analysis of primary and secondary sources.	Activity #1: Energy Detectives – Enrichment #4 Activity #2: May the Source Be with You
2. Determine the central ideas or information of a primary or secondary source; provide an accurate summary of the source distinct from prior knowledge or opinions.	Activity #1: Energy Detectives – Activity and Enrichment #4 Activity #2: May the Source Be with You
3. Identify key steps in a text’s description of a process related to history/social studies (e.g., how a bill becomes law, how interest rates are raised or lowered).	None
Craft and Structure	
4. Determine the meaning of words and phrases as they are used in a text, including vocabulary specific to domains related to history/social studies.	Activity #2: May the Source Be with You Activity #4: What Powers the Move?
5. Describe how a text presents information (e.g., sequentially, comparatively, causally).	Activity #2: May the Source Be with You
6. Identify aspects of a text that reveal an author’s point of view or purpose (e.g., loaded language, inclusion or avoidance of particular facts).	Activity #1: Energy Detectives – Enrichment #4 Activity #2: May the Source Be with You

Integration of Knowledge and Ideas	
7. Integrate visual information (e.g., in charts, graphs, photographs, videos, or maps) with other information in print and digital texts.	Activity #1: Energy Detectives Activity #2: May the Source Be with You Activity #4: What Powers the Move? – Enrichment 3
8. Distinguish among fact, opinion, and reasoned judgment in a text.	Activity #1: Energy Detectives – Enrichment #4
9. Analyze the relationship between a primary and secondary source on the same topic.	None
Range of Reading and Level of Text Complexity	
10. By the end of grade 8, read and comprehend history/social studies texts in the grades 6–8 text complexity band independently and proficiently.	None

Reading Standards for Literacy in Science and Technical Subjects: Grades 6-8 (RST)	PLT Energy & Society Activity Guide <i>(Numbers correspond to the activity numbers in the PLT Guide)</i>
Key Ideas and Details	
1. Cite specific textual evidence to support analysis of science and technical texts.	Activity #2: May the Source Be with You
2. Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.	Activity #2: May the Source Be with You
3. Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.	None

Craft and Structure	
4. Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6–8 texts and topics.	<p>Activity #1: Energy Detectives</p> <p>Activity #2: May the Source Be with You</p> <p>Activity #3: Energy Chains</p> <p>Activity #4: What Powers the Move?</p> <p>Activity #5: In the Driver’s Seat</p>
5. Analyze the structure an author uses to organize a text, including how the major sections contribute to the whole and to an understanding of the topic.	<p>Activity #2: May the Source Be with You</p>
6. Analyze the author’s purpose in providing an explanation, describing a procedure, or discussing an experiment in a text.	<p>Activity #1: Energy Detectives – Enrichment #4</p> <p>Activity #2: May the Source Be with You</p>
Integration of Knowledge and Ideas	
7. Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table).	<p>Activity #1: Energy Detectives</p> <p>Activity #2: May the Source Be with You</p> <p>Activity #4: What Powers the Move?</p> <p>Activity #5: In the Driver’s Seat</p>

Integration of Knowledge and Ideas	
8. Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.	Activity #1: Energy Detectives – Enrichment #4 Activity #2: May the Source Be with You
9. Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.	Activity #2: May the Source Be with You
Range of Reading and Level of Text Complexity	
10. By the end of grade 8, read and comprehend science/technical texts in the grades 6–8 text complexity band independently and proficiently.	None

Writing Standards for Literacy in History/Social Studies, Science, and Technical Subjects: Grades 6-8 (WHST)	PLT Energy & Society Activity Guide <i>(Numbers correspond to the activity numbers in the PLT Guide)</i>
Key Ideas and Details	
1. Write arguments to support claims in an analysis of substantive topics or texts using valid reasoning and relevant and sufficient evidence.	Activity #2: May the Source Be with You
2. Write informative/explanatory texts to examine and convey complex ideas and information clearly and accurately through the effective selection, organization, and analysis of content.	Activity #2: May the Source Be with You
3. Write narratives to develop real or imagined experiences or events using effective technique, well-chosen details and well-structured event sequences.	Activity #1: Energy Detectives
Craft and Structure	
4. Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	Activity #1: Energy Detectives Activity #2: May the Source Be with You
5. Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach.	None
6. Use technology, including the Internet, to produce and publish writing and to interact and collaborate with others.	Activity #2: May the Source Be with You

Integration of Knowledge and Ideas	
7. Conduct short as well as more sustained research projects based on focused questions, demonstrating understanding of the subject under investigation.	<p>Activity #1: Energy Detectives – Enrichment #4</p> <p>Activity #2: May the Source Be with You</p> <p>Activity #4: What Powers the Move? – Enrichment #3</p> <p>Activity #5: In the Driver’s Seat</p>
8. Gather relevant information from multiple print and digital sources, assess the credibility and accuracy of each source, and integrate the information while avoiding plagiarism.	<p>Activity #1: Energy Detectives – Enrichment #4</p> <p>Activity #2: May the Source Be with You</p> <p>Activity #4: What Powers the Move? – Enrichment #3</p> <p>Activity #5: In the Driver’s Seat</p>
9. Draw evidence from literary or informational texts to support analysis, reflection, and research.	<p>Activity #1: Energy Detectives – Enrichment #4</p> <p>Activity #2: May the Source Be with You</p> <p>Activity #4: What Powers the Move? – Enrichment #3</p> <p>Activity #5: In the Driver’s Seat</p>
Range of Reading and Level of Text Complexity	
10. Write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences.	<p>Activity #1: Energy Detectives</p> <p>Activity #2: May the Source Be with You</p> <p>Activity #4: What Powers the Move?</p> <p>Activity #5: In the Driver’s Seat</p>

End of Document

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