

PROJECT LEARNING TREE
Energy and Society
6th grade
Correlation to the Texas Essential Knowledge and Skills

Students are expected to:	Activity
Language Arts	
6.17D produce a multimedia presentation involving text and graphics using available technology	2
6.28A participate in student-led discussions by eliciting and considering suggestions from other group members and by identifying points of agreement and disagreement	2
Math	
6.10B identify mean (using concrete objects and pictorial models), median, mode, and range of a set of data	5
6.10D solve problems by collecting, organizing, displaying, and interpreting data	5
6.11A identify and apply mathematics to everyday experiences, to activities in and outside of school, with other disciplines, and with other mathematical topics	5
Science	
6.2B design and implement experimental investigations by making observations, asking well-defined questions, formulating testable hypotheses, and using appropriate equipment and technology	5
6.2C collect and record data using the International System of Units (SI) and qualitative means such as labeled drawings, writing, and graphic organizers	1
6.7A research and debate the advantages and disadvantages of using coal, oil, natural gas, nuclear power, biomass, wind, hydropower, geothermal, and solar resources	2, 3, 4, 5
6.7B design a logical plan to manage energy resources in the home, school, or community	2, 4
6.8A compare and contrast potential and kinetic energy	1, 3
6.9A investigate methods of thermal energy transfer, including conduction, convection, and radiation	3
6.9B verify through investigations that thermal energy moves in a predictable pattern from warmer to cooler until all the substances attain the same temperature such as an ice cube melting	3
6.9C demonstrate energy transformations such as energy in a flashlight battery changes from chemical energy to electrical energy to light energy	3

Social Studies	
6.6B identify the location of renewable and nonrenewable natural resources such as fresh water, fossil fuels, fertile soils, and timber	2
6.7B identify and analyze ways people have modified the physical environment such as mining, irrigation, and transportation infrastructure	4
6.22D create written and visual material such as journal entries, reports, graphic organizers, outlines, and bibliographies based on research	2