Targeted Benchmarks

SC .6.E.7.1: Differentiate among radiation, conduction and convection, the three mechanisms by which heat is transferred through Earth's system.

SC.6.E.7.5: Explain how energy provided by the sun influences global patterns of atmospheric movement and the temperature differences between air, water, and land.

SC.6.P.11.1: Explore the Law of Conservation of Energy by differentiating between potential and kinetic energy. Identify situations where kinetic energy is transformed into potential energy and vice versa.

SC.6.P.13.1: Investigate and describe types of forces including contact forces and forces acting at a distance, such as electrical, magnetic, and gravitational.

CTE-ENGY.68.GENRL.02.05: Research and present information on an energy career including roles and responsibilities, opportunities for employment and the requirements for education and training.

CTE-ENGY.68.GENRL.03.01: Describe the energy source(s) the power plants use

CTE-ENGY.68.GNRATIN.03.02: Explain the difference between alternative energy and renewable energy.

CTE-ENGY.68.GNRATN.03.04: Compare and contrast alternative and renewable sources of energy with conventional sources of energy.

CTE-ENGY.68.GNRATN.04.04: Research and map appropriate locations ideal for wind energy applications.

CTE-ENGY.68.GENRL.04.06: Plan ways to conserve energy at home and at school.

CTE-ENGY.68.GNRATN.08.01: Discuss the major sources of biomass.

CTE-ENGY.68.GNRATN.08.06: List the advantages and disadvantages of using biomass for energy (e.g. CO_2 emissions, photosynthetic efficiency, cost, etc.).

MAFS.6.NS.1.1: Interpret and compute quotients of fractions and solve word problems involving division of fractions by fractions, e.g., by using visual fraction modules and equations to represent the problem.

MAFS.6.RP.1.2: Understand the concept of a unit rate a/b associated with a ratio a:b with b ≠ 0, and use rate language in the context of a ratio relationship.

MAFS.6.RP.1.3: Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.

MAFS.6.SP.1.2: Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.

MAFS.6.NBT.2.3: Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.

MAFS.6.NS.2.3: Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.

MAFS.6.NS.3.8: Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.

6.L.1.1: Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.

6.RL.1.2: Determine a theme or central idea of a text and how it is conveyed through particular details provide a summary of the text distinct from personal opinions or judgments.

LAFS.68.RH.2.4: Determine the meaning of words and phrases as they are used in a text, including vocabulary specific to domains related to history/social studies.

LAFS.68.RST.3.8: Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.

LAFS.K12.W.3.9: Draw evidence from literary or informational texts to support analysis, reflection, and research.

LAFS.6.SL2: Cluster 2: Presentation of Knowledge and Ideas

LAFS.6.W.3.7: Conduct short research projects to answer a question, drawing on several sources and refocusing the inquiry when appropriate