

A. Energy Concepts

1. A 60-Watt light bulb that is used for an average of 4 hours each day uses _____ kilowatt-hours of electricity per year.
Show work:

$$60\text{W} \times \frac{1\text{kW}}{1000\text{W}} \times \frac{4\text{hrs}}{1\text{day}} \times \frac{365\text{days}}{1\text{yr}} = 87.6\text{ kWh/yr}$$

2. If the cost of gas is \$3.50 per gallon and the average gas mileage of a car is 25 mpg, the cost of driving the car per mile is _____ \$/mi, or _____ ¢/mi.
Show work:

$$\frac{\$3.50}{1\text{gal}} \times \frac{1\text{gal}}{25\text{mi}} = 0.14$$

3. When energy that is stored in fossil fuels are burned, it changes form. Explain, using the law of thermodynamics, how energy forms change and what happens to it during the chemical change.

1st law energy is transformed from one form to another
 chemical \rightarrow thermal \rightarrow kinetic \rightarrow mechanical \rightarrow electrical

B. Energy Consumption

4. Explain how the major types of energy use have changed in the following historical circumstances:

- Industrial Revolution

After the industrial revolution, higher and faster consumption of fossil fuels

- Exponential growth of developing nations

more population \rightarrow more consumption of fossil fuels

- Periods of energy crisis such as the gasoline shortage in 1970's

Opec embargo
 U.S. CAFE improved

5. At present, what are the top three types of energy used globally?

Oil, coal, Gas

6. In the future, how will energy needs and sources expected to change?

Nonrenewable energy will diminish in available resources.
 A change for alternatives is expected

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Hailstork (composer), Anonymous (lyricist) ... I Will Lift Mine Eyes Unto the Hills (Psalm 121) ... Music Sample: CGB528 I Will Lift Mine Eyes Unto the Hills (Psalm 121) (Full Score). Description: This calm, meditative original composition directly ... I will lift up mine eyes - Sheet Music - John Rutter John Rutter. I will lift up mine eyes. Vocal score. Forces or Category: SATB & organ/orchestra. Orchestration: 2.2.2.2-2.0.0.0-timp(opt)-hp-str. I to the Hills Will Lift Mine Eyes (Psalm 121) I to the Hills Will Lift Mine Eyes (Psalm 121): from Tenebrae (III) (Full Score) - 8598A. \$17.00 ; I to the Hills Will Lift Mine Eyes (Psalm 121): from Tenebrae ... I Will Lift Up Mine Eyes Vocal Range: High ; Pitch Range: E4- F#5 ; Composer: Michael Head ; Text Source: Ps 121 ; Publisher: Carl Fischer ... John Tavener: I Will Lift Up Mine Eyes ... John Tavener: I Will Lift Up Mine Eyes Unto The Hills (Vocal Score). German Edition. John Tavener: I Will Lift Up Mine Eyes Unto The Hills (Vocal Score). I Will Lift My Eyes - Full Score and Parts Vocal Forces: SATB, Cantor, Solo, Assembly. Accompaniment: Keyboard. Guitar: Yes. Instrumental parts included: C Instrument, Flute I, Flute II, Oboe, ... I Will Lift up Mine Eyes - Marzo, Eduardo Jul 5, 2014 — Marzo, Eduardo - I Will Lift up Mine Eyes Psalm 121. Voice High and ... "For over 20 years we have provided legal access to free sheet music. I Will Lift Up Mine Eyes (Sowerby, Leo) [7 more...]For voice, mixed chorus, organ; Scores featuring the voice; Scores ... Note: I can only provide full works, not arrangements or individual movements. Fundamentals of Turbomachinery by Peng, William W. Fundamentals of Turbomachinery by Peng, William W. Fundamentals of Turbomachinery A comprehensive introduction to turbomachines and their applications With up-to-date coverage of all types of turbomachinery for students and practitioners, ... Fundamentals of Turbomachinery - William W. Peng Dec 21, 2007 — A comprehensive introduction to turbomachines and their applications. With up-to-date coverage of all types of turbomachinery for students ... Fundamentals of Turbomachinery - Peng, William W. A comprehensive introduction to turbomachines and their applications. With up-to-date coverage of all types of turbomachinery for students and practitioners ... Fundamentals of Turbomachinery by William W. Peng ... A comprehensive introduction to turbomachines and their applications With up-to-date coverage of all types of turbomachinery for students and practitioners, ... Fundamentals of Turbomachinery - William W. Peng A comprehensive introduction to turbomachines and their applications With up-to-date coverage of all types of turbomachinery for students and practitioners, ... Fundamentals Turbomachinery by William Peng Fundamentals of Turbomachinery by Peng, William W. and a great selection of related books, art and collectibles available now at AbeBooks.com. Fundamentals of Turbomachinery by William W. Peng Dec 21, 2007 — A comprehensive introduction to turbomachines and their applications. With up-to-date coverage of all types of turbomachinery for students ... Fundamentals of Turbomachinery by William W. Peng ... Find the best prices on Fundamentals of Turbomachinery by William W. Peng at BIBLIO | Hardcover | 2007 | Wiley | 1st Edition | 9780470124222. Fundamentals of Turbomachinery Fundamentals of Turbomachinery ; Title: Fundamentals of Turbomachinery ; Author: William W. Peng ; ISBN: 0470124229 / 9780470124222 ; Format: Hard Cover ; Pages: 384