

IT PAYS TO SAVE IN YOUR HOME may advance the following
ENERGY LITERACY PRINCIPLES AND CONCEPTS

1 Energy is a physical quantity that follows precise natural laws.

1.7 Many different units are used to quantify energy.

1.8 Power is a measure of energy transfer rate.

2 Physical processes on Earth are the result of energy flow through the Earth system.

2.6 Greenhouse gases affect energy flow through the Earth system.

2.7 The effects of changes in Earth's energy system are often not immediately apparent.

4 Various sources of energy can be used to power human activities, and often this energy must be transferred from source to destination.

4.1 Humans transfer and transform energy from the environment into forms useful for human endeavors.

4.2 Human use of energy is subject to limits and constraints.

4.4 Humans transport energy from place to place.

4.5 Humans generate electricity in multiple ways.

4.7 Different sources of energy and the different ways energy can be transformed, transported, and stored each have different benefits and drawbacks.

5 Energy decisions are influenced by economic, political, environmental, and social factors.

5.1 Decisions concerning the use of energy resources are made at many levels.

5.4 Energy decisions are influenced by economic factors.

5.6 Energy decisions are influenced by environmental factors.

5.7 Energy decisions are influenced by social factors.

6 The amount of energy used by human society depends on many factors.

6.2 One way to manage energy resources is through conservation.

6.5 Social and technological innovation affects the amount of energy used by human society.

6.6 Behavior and design affect the amount of energy used by human society.

6.8 Amount of energy used can be calculated and monitored.

7 The quality of life of individuals and societies is affected by energy choices.

7.1 Economic security is impacted by energy choices.

7.3 Environmental quality is impacted by energy choices.