

MEASURING SUNLIGHT: THE PYRANOMETER may advance the following

ENERGY LITERACY PRINCIPLES AND CONCEPTS

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

1.1 Energy is a quantity that is transferred from system to system.

1.5 Energy comes in different forms and can be divided into categories.

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.

2.2 Sunlight, gravitational potential, decay of radioactive isotopes, and rotation of the Earth are the major sources of energy driving physical processes on Earth.

2.3 Earth's weather and climate are mostly driven by energy from the Sun.

3 Biological processes depend on energy flow through the Earth system.

3.1 The Sun is the major source of energy for organisms and the ecosystems of which they are a part.

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.

5.6 Energy decisions are influenced by environmental factors.