

**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.