

Addressing the Standards.

The following Pennsylvania State Standards are addressed in the “Complexity from Simplicity” program:

- S4.C.2.1.3: Recognize or illustrate simple direct current series and parallel circuits composed of batteries, light bulbs, wire, and on/off switches.
- S4.C.2.1.2: Describe the flow of energy through an object or system.
- S4.C.2.1.1: Identify energy forms, energy transfer, and energy examples.
- S11.A.3.1.1: Apply systems analysis, showing relationships, input and output, and measurements to explain a system and its parts.
- S11.B.1.1.1: Explain how structure determines function at multiple levels of organization.
- S4.A.3.2.2: Use models to make observations to explain how systems work.
- S4.A.2.1.4: State a conclusion that is consistent with the information/data.
- S11.A.3.1.2: Analyze and predict the effect of making a change in one part of a system on the system as a whole.
- S8.A.2.1.6: Identify a design flaw in a simple technological system and devise possible working solutions
- S4.A.1.1.2: Identify and describe examples of common technological changes past to present in the community that have either positive or negative impacts on society or the environment.
- S8.A.2.2.3: Describe ways technology extends and enhances human abilities for specific purposes.