

South Jersey Coastal Consortium

2008 Summer Institute Participant Evaluation

The 2008 Summer Institute was designed to help you be better prepared to teach the following essential questions and enduring understandings:

Essential Questions	Corresponding Enduring Understandings
How do we know that things have energy?	Energy takes many forms. These forms can be grouped into types of energy that are associated with the motion of mass (kinetic energy), and types of energy associated with the position of mass and with energy fields (potential energy).
How can energy be transferred from one material to another? What happens to a material when energy is transferred to it?	Changes take place because of the transfer of energy. Energy is transferred to matter through the action of forces. Different forces are responsible for the transfer of the different forms of energy.
What happens to the energy in a system – where does this energy come from, how is it changed within the system, and where does it ultimately go? How does the flow of energy affect the materials in the system?	Energy readily transforms from one form to another, but these transformations are not always reversible. The details of these transformations depend upon the initial form of the energy and the properties of the materials involved. Energy may transfer into or out of a system and it may change forms, but the total energy cannot change.
What is a “responsible” use of energy? Are there alternative forms of energy that will serve our needs, or better ways of using traditional forms of energy?	People utilize a variety of resources to meet the basic and specific needs of life. Some of these resources cannot be replaced. Other resources can be replenished or exist in such vast quantities they are in no danger of becoming depleted. Often the energy stored in resources must be transformed into more useful forms and transported over great distances before it can be helpful to us.

Please click on the following link and complete a survey regarding the ways that you were introduced to these ideas during the summer institute.

<http://www.zoomerang.com/Survey/?p=WEB2285U2DANKX>