Children's Book Challenge

Correlation to SC State Science Standards

**Fourth Grade**

4-PS3-2. Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat,

and electric currents.

Disciplinary Core Ideas

PS3.A: Definitions of Energy Energy can be moved [transferred] from place to place by moving objects or through sound, light, or electric currents. NRC Framework Link PS3.B: Conservation of Energy and Energy Transfer Energy is present whenever there are moving objects, sound, light, or heat. When objects collide, energy can be transferred from one object to another, thereby changing their motion. In such collisions, some energy is typically also transferred to the surrounding air; as a result, the air gets heated and sound is produced. Light also transfers energy from place to place. Energy can also be transferred from place to place by electric currents, which can then be used locally to produce motion, sound, heat, or light.

**Fifth Grade**

5-ESS3-1. Evaluate potential solutions to problems that individual communities face in protecting the Earth’s resources and environment.

Disciplinary Core Ideas

ESS3.C: Human Impacts on Earth Systems Human activities in agriculture, industry, and everyday life have had major effects on the land, vegetation, streams, ocean, air, and even outer space. But individuals and communities are doing things to help protect Earth’s resources and environments. NRC Framework Link ETS1.B: Developing Possible Solutions Research on a problem should be carried out before beginning to design a solution. Testing a solution involves investigating how well it performs under a range of likely conditions. NRC Framework Link ETS2.B: Influence of Engineering, Technology, and Science on Society and the Natural World Engineers improve existing technologies or develop new ones to increase their benefits, to decrease known risks, and to meet societal demands.