Teacher Resource: Alignment to Curriculum Frameworks

This lesson touches the standards listed but not with equal level of alignment (meaning SOME elements of the standard may be addressed and in other cases ALL of it will be addressed). We would like your help to better improve our alignments. Please email us with your feedback at tryengieering@ieee.org.

◆ Next Generation Science Standards (NGSS)

MS-PS2-3: Ask questions about data to determine the factors that affect the strength of electric and magnetic forces.

◆ Common Core State Standards for Mathematics

CCSS MP2: Reason abstractly and quantitatively. Mathematically proficient students make sense of quantities and their relationships in problem situations.

◆ ITEEA Standards for Technological Literacy – All Ages

Standard 3.2: Students will develop an understanding of the Nature of Technology and Society of the core concepts of technology.

◆ CSTA Computer Science Standards

Algorithms & Programing

- **Standard 2AP-13** Decompose problems and subproblems into parts to facilitate the design, implementation, and review of programs
- **Standard 2AP-17** Systematically test and refine programs using a range of test cases.

◆ ISTE Technology Standards for Students

ISTE Standards for Students

- **Innovative Designer**: Students use a variety of technologies within a design process to identify and solve problems by creating new, useful or imaginative solutions.
- **Computational Thinker:** Students develop and employ strategies for understanding and solving problems in ways that leverage the power of technological methods to develop and test solutions.