



Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 10-12 COURSE NAME: Physical Science
MEASUREMENT TOPIC: Explain Energy Transfer Through Fields

4	In addition to Score 3, the student makes in-depth inferences and applications.
3	The student can: <ul style="list-style-type: none">• Construct an explanation of the ways in which modern science uses both magnetic and electric concepts to create usable products using<ul style="list-style-type: none">• field forces• electric and magnetic forces between objects• Use computational thinking and models to determine the qualitative and quantitative relationships between voltage, current, and resistance in circuits using Ohm's Law.
2	The student can: <ul style="list-style-type: none">• Analyze and interpret data concerning the advantages and disadvantages of the energy sources used to produce electricity.• Plan and carry out investigations to determine the relationships between magnetism and electrical charge in common devices.• Describe real-world examples of field forces acting on objects that are not in contact.

1

With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.

Key Vocabulary: