

AAAS Science Benchmarks
 Grades 9-12

	Mapping the Field of a Dipole Magnet	Mapping the Ambient Magnetic Field	Mapping the Field of Multiple Dipole Magnets	Earth's Magnetic Field from Space
The Nature of Science				
<i>The Scientific World View</i>	X	X	X	X
<i>Scientific Inquiry</i>	X	X	X	X
The Physical Setting				
<i>The Universe</i>	X	X	X	X
<i>The Structure of Matter</i>	X	X	X	X
<i>Motion</i>	X	X	X	X
<i>Forces of Nature</i>	X	X	X	X

NRC National Science Education Standards
Grades 9-12

	Mapping the Field of a Dipole Magnet	Mapping the Ambient Magnetic Field	Mapping the Field of Multiple Dipole Magnets	Earth's Magnetic Field from Space
Content Standard A: Science as Inquiry				
<i>Abilities to do Scientific Inquiry</i>	X	X	X	X
<i>Understandings About Scientific Inquiry.</i>	X	X	X	X
Content Standard B: Physical Science				
<i>Motions and Forces</i>	X	X	X	X
<i>Interactions of Energy and Matter</i>	X	X	X	X
Content Standard D: Earth and Space Science				
<i>Energy in the Earth System</i>				X
Content Standard E: Science and Technology				
<i>Understandings about Science and Technology</i>	X	X	X	X
Content Standard G: History and Nature of Science				
<i>Science as a Human Endeavor</i>	X	X	X	X
<i>Nature of Scientific Knowledge</i>	X	X	X	X

NCTM Principals and Standards for School Mathematics
Grades 9-12

	Mapping the Field of a Dipole Magnet	Mapping the Ambient Magnetic Field	Mapping the Field of Multiple Dipole Magnets	Earth's Magnetic Field from Space
Data Analysis & Probability	X	X	X	X
Problem Solving	X	X	X	X
Reasoning & Proof	X	X	X	X