

Magnetism



Name Class Date This diagram The diagram below shows an electron, e, represents located in a magnetic field. There is no magnetic A the magnetic force on the electron north e 🖯 south field around a wire in which electrons are flowing protons and etectrons flowing around ar electrical wire A toward the right side of the page B toward the top of the page protons and neutrons flowing around an electrical wire C into the page an electromagnetic field around an out of the page electrical wire In a mass spectrometer, the strength of the 3 In the diagram below, a wire carrying an magnetic field is 1.0×10^{-1} tesla. Upon entering electron current into the page, as denoted the chamber of the spectrometer, a positive ion by X, is placed in a magnetic field. traveling at 2.0 × 106 meters per second 5 **PREVIEW** Please Sign In or Sign Up to download the printable version of this worksheet 7 the needle of a compass placed at point A? **A** stationary **B** moving **C** positive **D** negative The diagram below represents magnetic 9 The diagram below shows the lines of magnetic force between two north lines of force within a region space. magnetic poles. The magnetic field is At which point is the strongest at point magnetic field strength greatest? A 1 B 2 A 1 **C** 3 **C** 3 B 2 **D** 4 **D** 4



Magnetism



Name Class Date This diagram The diagram below shows an electron, e, Key 2 represents located in a magnetic field. There is no magnetic A the magnetic force on the electron north e 🖯 south field around a wire in which electrons are flowing Α protons and etectrons flowing around ar electrical wire A toward the right side of the page B toward the top of the page protons and neutrons flowing around an electrical wire C into the page an electromagnetic field around an out of the page electrical wire In a mass spectrometer, the strength of the 3 In the diagram below, a wire carrying an magnetic field is 1.0×10^{-1} tesla. Upon entering electron current into the page, as denoted the chamber of the spectrometer, a positive ion by X, is placed in a magnetic field. traveling at 2.0 × 106 meters per second 5 B **PREVIEW** Please Sign In or Sign Up to download the printable version of this worksheet 7 the needle of a compass placed at point A? **A** stationary B **B** moving **C** positive **D** negative The diagram below represents magnetic 9 The diagram below shows the lines of magnetic force between two north lines of force within a region space. magnetic poles. The magnetic field is At which point is the strongest at point (C)magnetic field strength greatest? B 2 A 1 **C** 3 **C** 3 B 2 **D** 4 **D** 4