

1. Record Nr.	UNINA9910966378603321
Autore	Keeley Page
Titolo	Uncovering Student Ideas in Physical Science . Volume 2 39 New Electricity and Magnetism Formative Assessment Probes // by Page Keeley and Rand Harrington
Pubbl/distr/stampa	NSTA, 2014
ISBN	9781941316917 1941316913
Edizione	[1st ed.]
Descrizione fisica	1 online resource
Collana	Uncovering Student Ideas in Science Series
Altri autori (Persone)	HarringtonRand
Disciplina	507.1/273
Soggetti	Magnetism - Study and teaching Electricity - Study and teaching (Elementary) Educational evaluation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	PB274X2_Cover -- Contents -- Preface -- Acknowledgments -- Dedication -- About the Authors -- Introduction -- Section 1 - Electric Charge -- Concept Matrix, Probes #1-#8 -- 1 - Do the Objects Need to Touch? -- 2 - How Will the Balloons Move? -- 3 - Can It Be Electrically Charged? -- 4 - What Happens When You Bring a Balloon Near a Wall? -- 5 - Conductors or Insulators? -- 6 - Does the Example Provide Evidence? -- 7 - Where Can You Find Electric Charge? -- 8 - Where Does the Charge Come From? -- Section 2 - Electric Current -- Concept Matrix, Probes #9-#21 -- 9 - One Wire or Two? -- 10 - How Can You Light the Bulb? -- 11 - Where Do I Put the Switch? -- 12 - How Do You Think About the Flow of Electric Current Through a Circuit? -- 13 - How Bright Will the Bulbs Be? -- 14 - Which Burns Brighter? -- 15 - How Would You Rank the Brightness of These Bulbs? -- 16 - How Does the Current in Each Battery Compare? -- 17 - Does It Matter If the Wire Has Knots? -- 18 - Does Electricity Leak From an Outlet? -- 19 - Why Two Prongs? -- 20 - Does the Weight Change? -- 21 - How Fast Do the Charges Move? -- Section 3 - Magnets and Electromagnetism -- Concept Matrix, Probes #22-#39 -- 22 - Can Magnets Push or Pull Without Touching? -- 23 - Can You Pick It up With a Magnet? -- 24 - Does a Magnet Pick up Any Kind of Metal? --

25 - What Happens When You Wrap a Magnet With Aluminum Foil? --
26 - What Happens If You Use the Other End of the Magnet? -- 27 -
Does a Magnet Work Without Air? -- 28 - Which One Attracts? -- 29 -
How Would a Magnet Work on the Moon? -- 30 - What Happens When
You Hold a Magnet Near a Refrigerator? -- 31 - What Happens When a
Magnet Is Brought Near a Charged Ball? -- 32 - What Makes It Stick? --
33 - What Happens When a Magnet Breaks? -- 34 - How Can You
Represent a Magnetic Field? -- 35 - How Can You Magnetize a Nail?.
36 - How Can You Make an Electromagnet? -- 37 - Does the Type of
Wire Make a Difference in an Electromagnet? -- 38 - How Can You
Make a Stronger Electromagnet? -- 39 - What Happens When You Bring
a Compass Near a Current-Carrying Wire? -- Index -- PB274X2_Back
Cover.

Sommario/riassunto

If you and your students cant get enough of a good thing, Volume 2 of Uncovering Student Ideas in Physical Science is just what you need. The book offers 39 new formative assessment probes, this time with a focus on electric charge, electric current, and magnets and electromagnetism. It can help you do everything from demystify electromagnetic fields to explain the real reason balloons stick to the wall after you rub them on your hair.
