

Activity Booklet Scope & Sequence

Kinetic Magnetics® Wave Wires® Magnet Set (#731110)

Front Matter:

- Safety Tips for Use

Activities (and activity answers):

Activity 1	Science Concepts & Skills:
Attract & Repel	· Forces & motion
	· Attraction
	·Repulsion
	· Poles/Polarity
	· Properties of materials
	· Cause & effect
	· Compare & contrast
Activity 2	Science Concepts & Skills:
Make a Compass	· Forces & motion
	· Attraction
	·Repulsion
	· Poles/Polarity
	· Earth as a magnet
	· Cause & effect
	· Integration of math (measurement)
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Activity 3	Science Concepts & Skills:
Perpetual Notions	Forces & motion
	· Attraction
	·Repulsion
	· Gravity, weight, & balance
	·Energy
	 Collect, analyze, & interpret data
	· Cause & effect
	· Compare & contrast
V.M 2009 - 20	· Integration of math (measurement & data)
Activity 4	Science Concepts & Skills:
Dangling Challenge	· Forces & motion
	· Attraction
	· Temporary magnetism
	Properties of materials
	Cause & effect
	· Collect, analyze, & interpret data
	· Compare & contrast
	· Integration of math (data)
Activity 5	Science Concepts & Skills:
Viggle Vires	· Forces & motion
	Attraction
	Repulsion
	· Gravity, weight, & balance
	· Energu
	· Oscillations
	· Cause & effect
	· Integration of math (measurement)
Activity 6	Science Concepts & Skills:
Activity 6 Earthquake-Resistant	Forces & motion
Earthquake-Hesistant Structures	· Attraction
aciuctures	VA.63 VIDT NO.64
	Repulsion
	Energy
	· Collect, analyze, & interpret data
	· Cause & effect
	· Compare & contrast
	· Properties of materials
	·Engineering
	· Integration of math (measurement & data)



Teacher's Guide Scope & Sequence

Kinetic Magnetics[®] Wave Wires[®] Magnet Station (#731111) Kinetic Magnetics[®] Wave Wires[®] Magnet Station Pack (#731112)

Front Matter:
 Safety Instructions
 About This Kit
 Educational Standards
 Tips for Use
 Station Assembly
 Activity Materials (included)
 Activity Materials Needed (not included)

Lessons:

Lesson 1	Science Concepts & Skills:	
Attract & Repel	· Forces & motion	
	· Attraction	
	Repulsion	
	· Poles/Polaritu	
	· Properties of materials	
	· Cause & effect	
	· Compare & contrast	
Lesson 2	Science Concepts & Skills:	
Viewing Magnetic Fields	· Forces & motion	
	· Attraction	
	Repulsion	
	· Poles/Polarity	
	· Magnetic fields	
	Integration of art	
	· Engineering & technology	
	· Cause & effect	
	· Patterns	
Lesson 3	Integration of math (measurement)	
Lesson 3 It's Alive!	Science Concepts & Skills: Forces & motion	
IC S Alive!		
	Attraction	
	Repulsion	
	· Poles/Polarity	
	· Magnetic fields	
	· Integration of math	
	· Properties of materials	
	· Cause & effect	
9	· Compare & contrast	
Lesson 4	Science Concepts & Skills:	
Magnetism Matters	· Forces & motion	
	· Attraction	
	· Kinetic energy	
	· Properties of materials	
	· States of matter	
	· Cause & effect	
	· Compare & contrast	
Lesson 5	Science Concepts & Skills:	
Science Friction	· Forces & motion	
	· Stability	
	Friction	
	Gravity	
	· Electromagnetic force	
	· Attraction	
	· Cause & effect	
	· Compare & contrast	
	Compare & contrast	

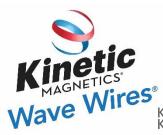




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Lesson 6	Science Concepts & Skills:
Pinball Machine	· Forces & motion
	· Attraction
	Repulsion
	Energy
	· Engineering & technology
	· Cause & effect
	· Integration of math (measurement)
Lesson 7	Science Concepts & Skills:
Full STEAM Ahead!	· Forces & motion
	· Attraction
	· Engineering & technology
	Integration of art
	· Properties of materials
	· Cause & effect
Lesson 8	Science Concepts & Skills:
Dangling Challenge	· Forces & motion
	· Attraction
	· Temporary magnetism
	· Magnetic fields
	· Newton's third law of motion
	· Properties of materials
	· Engineering & engineering design
	· Cause & effect
	· Collect, analyze, & interpret data
	· Integration of math (data)
	· Compare & contrast
Lesson 9	Science Concepts & Skills:
Tricks on a Bridge	· Forces & motion
Thoks on a Briage	· Cause & effect
	· Engineering & engineering design
	Attraction
	· Collect, analyze, & interpret data
	Integration of math (measurement & data)
	· Compare & contrast
Lesson 10	Science Concepts & Skills:
Make a Compass	· Forces & motion
	· Attraction
	·Repulsion
	Poles/Polarity
	· Earth as a magnet
	· Human impacts on Earth
	Climate change
	· Cause & effect
	· Compare & contrast
	· Integration of math (measurement)



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Lesson 11	Science Concepts & Skills:
Earthquake-Resistant	·Forces & motion
Structures	Attraction
	Repulsion
	·Energy
	·Waves
	· Earth & human activity (earthquakes)
	· Collect, analyze, & interpret data
	Cause & effect
	· Compare & contrast
	Properties of materials
	Engineering & engineering design
1000000000000	Integration of math (measurement & data)
Lesson 12 Perpetual Notions	Science Concepts & Skills:
	Forces & motion
	Attraction
	Repulsion
	· Gravity, weight, mass, & balance
	· Newton's second law of motion
	·Energy
	· Collect, analyze, & interpret data
	· Cause & effect
***************************************	· Compare & contrast
	·Integration of math (measurement, operations, & data)
Lesson 13	Science Concepts & Skills:
Viggle Vires	· Forces & motion
1573.	Attraction
	Repulsion
	· Poles/Polarity
	· Gravity, weight, & balance
	·Oscillations
	·Waves
	· Energy
	· Cause & effect
	· Compare & contrast
Lesson 14	Science Concepts & Skills:
Stop the Train!	· Forces & motion
	Attraction
	Repulsion
	· Eddy currents, Lenz's Law, & conductors
	· Engineering & technology
	Integration of math (measurement)
	· Cause & effect
	· Compare & contrast
	Properties of materials
	Troperdes of materials

Answers

