

Issues and Science: Third Edition, Designed for the NGSS
Earth's Resources: Remote Learning Supports

Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Can be skipped for time constraints					*			*						
Activity can be a demo (teacher needs equipment from kit)	*		*			*								
Materials for student at home use can be purchased					*			*				*		
Remote Learning Packet Provided	*			*	*	*		*	*	*	*			
Editable Student Sheets for Digital Use	*				*	*		*	*	*	*			
Investigation can be substituted with provided video	*				*	*		*	*			*		
Computer Simulation (student portal not needed)														
Computer Simulation (student portal required)										*	*			
Editable Teacher Power Point	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Web/Digital Extension Resources	*			*				*				*	*	

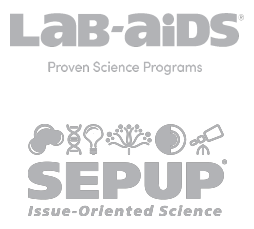
Investigation: Observing Earth's Resources
 Reading: World Resource Consumption
 Laboratory: Properties of Natural Resources
 Talking it Over: Per Capita Consumption
 Modeling: Finding Resource Deposits
 Laboratory: Extracting Resources
 Reading: Geological Processes
 Laboratory: Groundwater Formation
 Modeling: Modeling Rock Layers
 Investigation: Earth's History
 Investigation: Fossils Through Time
 Reading: Impact on Earth Systems
 Talking it Over: The Rockford Range Decision



Issues and Science: Third Edition, Designed for the NGSS
From Cells to Organisms | Remote Learning Supports

Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Can be skipped for time constraints															
Activity can be a demo (teacher needs equipment from kit)					*			*			*		*		
Materials for student at home use can be purchased						*		*		*	*				
Remote Learning Packet Provided	*		*		*		*		*		*	*	*		
Editable Student Sheets for Digital Use	*		*		*		*		*		*	*	*		
Investigation can be substituted with provided video	*		*		*		*		*		*	*	*		
Computer Simulation (student portal not needed)								*							
Computer Simulation (student portal required)															
Editable Teacher Power Point	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Web/Digital Extension Resources		*	*	*		*		*						*	

Investigation: Disease Outbreak
 View and Reflect: An Invisible Organism
 Laboratory: Evidence of Microscopic Organisms
 Reading: The History of Cell Theory
 Laboratory: Cells Alive!
 Reading: Parts of a Cell
 Investigation: Investigating the Cell Membrane
 Modeling: Modeling Cell Structure and Function
 Laboratory: Observing Multicellular Organisms
 Reading: Cells, Tissues, and Organs
 Modeling: Energy and Matter in Cells
 Laboratory: The Cells of Plants
 View and Reflect: A Plant's Source of Energy
 Investigation: Fighting Disease
 Investigation: Disease Detectives



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Issues and Science: Third Edition, Designed for the NGSS
Waves | Remote Learning Supports

Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Can be skipped for time constraints						*			*						
Activity can be a demo (teacher needs equipment from kit)		*					*								
Materials for student at home use can be purchased	*	*		*	*		*						*		
Remote Learning Packet Provided	*	*			*		*	*	*	*	*		*	*	
Editable Student Sheets for Digital Use	*	*			*		*	*	*	*	*		*	*	
Data can be collected from provided video		*			*		*	*	*	*	*		*	*	
Computer Simulation (student portal not needed)															
Computer Simulation (student portal required)															
Editable Teacher Power Point	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Web/Digital Extension Resources	*			*								*		*	

Investigation: It's a Noisy World

Investigation: Making Sound Waves

Reading: The Nature of Sound

Investigation: Noise-Induced Hearing Loss

Reading: Analog and Digital Technology

Investigation: Another Kind of Wave

Laboratory: Wave Reflection

Laboratory: Refraction of Light

Laboratory: Comparing Colors

Reading: Selective Transmission

Laboratory: The Electromagnetic Spectrum

Laboratory: Where Does the Light Go?

Laboratory: Blocking Out Ultraviolet

Talking It Over: Personal Protection Plan



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Issues and Science: Third Edition, Designed for the NGSS
Geological Processes: Remote Learning Supports

Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Can be skipped for time constraints					*				*									
Activity can be a demo (teacher needs equipment from kit)		*			*				*					*				
Materials for student at home use can be purchased							*							*				
Remote Learning Packet Provided		*			*				*			*		*				*
Editable Student Sheets for Digital Use		*			*				*			*		*				*
Investigation can be substituted with provided video		*			*				*					*				*
Computer Simulation (student portal not needed)						*				*								
Computer Simulation (student portal required)												*						*
Editable Teacher Power Point	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Web/Digital Extension Resources	*		*			*	*	*	*	*	*	*	*	*			*	*

Talking It Over: Storing Nuclear Waste
 Investigation: Investigating Groundwater
 View and Reflect: Modeling Landslides
 Reading: Natural Hazards Caused by Earthquakes & Volcanoes
 Modeling: Modeling Volcanic Eruptions
 Investigation: Mapping Locations of Earthquakes & Volcanoes
 Problem Solving: Observing Earth's Moving Surface
 Reading: Beneath Earth's Surface
 Modeling: Modeling Earthquakes
 Computer Simulation: Plate Boundaries
 Reading: Understanding Plate Boundaries
 Investigation: The Continent Puzzle
 View and Reflect: The Theory of Plate Tectonics
 Laboratory: What Makes the Plates Move?
 Investigation: The Rock Cycle
 Reading: Rocks as a Resource
 Investigation: Enough Resources for All
 Talking It Over: Evaluating Site Risk



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Issues and Science: Third Edition, Designed for the NGSS
Land, Water, and Human Interactions: Remote Learning Supports

Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Can be skipped for time constraints								*		*				*		
Activity can be a demo (teacher needs equipment from kit)		*			*		*			*		*				*
Materials for student at home use can be purchased			*							*						
Remote Learning Packet Provided		*		*	*		*	*		*		*				
Editable Student Sheets for Digital Use		*		*	*		*	*		*		*				
Investigation can be substituted with provided video		*		*	*		*			*		*				
Computer Simulation (student portal not needed)								*								
Computer Simulation (student portal required)																
Editable Teacher Power Point	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Web/Digital Extension Resources	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Investigation: Where Should We Build?
 Laboratory: Does It Dissolve?
 Investigation: Water Quality
 Laboratory: Living Indicators
 Reading: Nutrients as Contaminants
 Modeling: Gulf of Mexico Dead Zone
 Investigation: Cutting Canyons & Building Deltas
 Reading: Traveling with the Water Cycle
 Investigation: Human Impact on Earth's Water
 Investigation: Making Topographic Maps
 Modeling: Boomtown's Topography
 Reading: Modeling Topographic Maps
 Role Play: Weathering, Erosion
 Investigation: Building on the Mississippi
 Design: Building in Boomtown



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Issues and Science: Third Edition, Designed for the NGSS
Solar System and Beyond: Remote Learning Supports

Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Can be skipped for time constraints			3 or 4								11 or 12						
Activity can be a demo (teacher needs equipment from kit)			*		*			*									
Materials for student at home use can be purchased			*		*	*		*			*	*		*			
Remote Learning Packet Provided		*	*		*			*		*							
Editable Student Sheets for Digital Use		*	*		*			*		*							
Investigation can be substituted with provided video			*		*			*									
Computer Simulation (student portal not needed)				*			*									*	
Computer Simulation (student portal required)		*								*							
Editable Teacher Power Point	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Web/Digital Extension Resources	*	*		*	*		*			*		*				*	

Talking It Over: Exploring Space
 Investigation: The Predictable Moon
 Modeling: Explaining the Moon's Phases
 Computer Simulation: Moon Phase Simulation
 Modeling: The Moon's Orbit
 Investigation: Changing Sunlight
 Computer Simulation: Earth's Tilt
 Reading: Earth on the Move
 Investigation: Observing Objects in Space
 Modeling: Drawing the Solar System
 Project: How Big Are the Planets?
 Investigation: Identifying Planets
 Reading: The Effects of Gravity
 Computer Simulation: Modeling Gravity
 Talking It Over: Choosing a Mission



Issues and Science: Third Edition, Designed for the NGSS
Land, Water, and Human Interactions: Remote Learning Supports

Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Can be skipped for time constraints					*							*					
Activity can be a demo (teacher needs equipment from kit)						*											
Materials for student at home use can be purchased						*	*	*				*	*				
Remote Learning Packet Provided					*		*	*							*		
Editable Student Sheets for Digital Use					*		*	*							*		
Investigation can be substituted with provided video								*				*		*	*		
Computer Simulation (student portal not needed)		*										*					*
Computer Simulation (student portal required)																	
Editable Teacher Power Point	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Web/Digital Extension Resources		*							*		*	*		*		*	*

Talking It Over: Climate Change
 Investigation: Investigating Local Weather
 Project: Local History of Severe Weather
 Problem Solving: Climate Types and Distribution Patterns
 Problem Solving: Climate Weather
 Laboratory: Heating Earth's Surface
 Problem Solving: Earth's Surface
 Modeling: Investigating Ocean Temperatures
 Role Play: Oceans and Climate
 Reading: Investigating Water
 Investigation: The Causes of Climate
 Design: Measuring Wind
 Investigation: Worldwide Wind
 Reading: Forecasting Wind Speed and Direction
 Investigation: Forecasting Weather
 Investigation: Atmosphere and Climate
 Investigation: History of Earth's Atmosphere
 Talking It Over: Global Warming
 Investigation: Global Warming
 Talking It Over: People, Weather, and Climate



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Issues and Science: Third Edition, Designed for the NGSS
Ecology: Remote Learning Supports

Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Can be skipped for time constraints					*								*			
Activity can be a demo (teacher needs equipment from kit)			*	*		*				*						
Materials for student at home use can be purchased							*									
Remote Learning Packet Provided			*	*	*	*	*		*		*	*	*			
Editable Student Sheets for Digital Use			*	*	*	*	*		*		*	*	*			
Investigation can be substituted with provided video				*	*		*		*		*					
Computer Simulation (student portal not needed)							*							*		
Computer Simulation (student portal required)												*	*			
Editable Teacher Power Point	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Web/Digital Extension Resources	*	*	*		*	*	*			*				*	*	

Talking It Over: The Miracle Fish?
 Project: Introduced Species
 Investigation: Data Transects
 Laboratory: Taking a Look Outside
 Investigation: A Suitable Habitat
 Laboratory: Ups and Downs
 Reading: Eating Up Clues
 Laboratory: Population Growth
 Investigation: Interactions in Ecosystems
 Modeling: Cycling of Matter
 Investigation: Abiotic Impacts on Ecosystems
 Investigation: Effects of an Introduced Species
 Talking It Over: Too Many Mussels
 Project: Introduced Species



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Issues and Science: Third Edition, Designed for the NGSS
Body Systems: Remote Learning Supports

View and Reflect: The Pellagra Story
Modeling: Parts of a Whole
Investigation: What's Happening Inside?
Reading: Digestion: An Absorbing Tale
Modeling: Food Breakdown
Laboratory: Observing Organisms
Reading: Can You Feel the Difference?
Laboratory: Finding the Nerve
Laboratory: Heartily Fit
Reading: Gas Exchange
Modeling: Interacting Systems
Investigation: The Circulation Game
Talking it Over: Testing Medicines: A Clinical Trial
Talking it Over: Evaluating Clinical Trials

Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Can be skipped for time constraints														
Activity can be a demo (teacher needs equipment from kit)									*	*				
Materials for student at home use can be purchased		*			*		*							
Remote Learning Packet Provided		*	*		*	*	*			*			*	
Editable Student Sheets for Digital Use		*	*		*	*	*			*			*	
Investigation can be substituted with provided video	*				*	*	*			*				
Computer Simulation (student portal not needed)	*													
Computer Simulation (student portal required)			*									*		
Editable Teacher Power Point	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Web/Digital Extension Resources	*		*	*						*	*			

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Issues and Science: Third Edition, Designed for the NGSS
Reproduction: Remote Learning Supports

Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Can be skipped for time constraints														
Activity can be a demo (teacher needs equipment from kit)		*					*					*	*	
Materials for student at home use can be purchased				*			*		*		*	*	*	
Remote Learning Packet Provided				*			*		*		*	*	*	
Editable Student Sheets for Digital Use				*			*		*		*	*	*	
Investigation can be substituted with provided video							*					*	*	
Computer Simulation (student portal not needed)														
Computer Simulation (student portal required)														
Editable Teacher Power Point	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Web/Digital Extension Resources	*		*	*	*	*	*	*	*	*	*	*	*	*

View and Reflect: Joe's Situation

Modeling: Creature Features

Reading: Reproduction

Investigation: Gene Combo

Problem Solving: Gene Squares

Reading: Mendel, First Geneticist

Laboratory: Do Genes Determine Everything?

Reading: Show Me the Genes!

Investigation: Breeding Critters?

Investigation: Animal Behavior

Modeling: Plant-Animal Interactions

Modeling: How Do Genes Produce Traits?

Talking It Over: Advising Joe



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Issues and Science: Third Edition, Designed for the NGSS
Evolution: Remote Learning Supports

Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Can be skipped for time constraints												*					
Activity can be a demo (teacher needs equipment from kit)												*					
Materials for student at home use can be purchased		*									*						
Remote Learning Packet Provided	*	*		*	*				*	*		*	*	*			
Editable Student Sheets for Digital Use	*	*		*	*				*	*		*	*	*			
Investigation can be substituted with provided video	*	*		*	*				*	*		*	*				
Computer Simulation (student portal not needed)						*										*	
Computer Simulation (student portal required)	*												*	*			
Editable Teacher Power Point	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Web/Digital Extension Resources	*			*				*				*	*				

Investigation: The Full Course
 Modeling: Hiding in the Background
 Role Play: A Meeting of Minds
 Modeling: Battling Beaks
 Modeling: Mutations: Good or Bad?
 Computer Simulation: Mutations and Evolution
 View and Reflect: Origins of Species
 Reading: History and Diversity of Life
 Laboratory: Fossil Evidence
 Investigation: Fossilized Footprints
 Investigation: Family Histories
 Investigation: A Whale of a Tale
 Talking it Over: Embryology
 Reading: Bacteria and Bugs: Evolution of Resistance
 Investigation: The Sixth Extinction?
 Project: Superbugs & Other Ways Humans are Affecting Evolution



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Issues and Science: Third Edition, Designed for the NGSS
Biomedical Engineering: Remote Learning Supports

Investigation: Save Fred!

Investigation: Me, An Engineer?

Reading: Bionic Bodies

Design: Artificial Bone Model

Design: Artificial Heart Valve

Reading: The Work of an Engineer

Investigation: Energy Bar

Laboratory: Investigating Biomechanics

Design: Get a Grip

Activity	1	2	3	4	5	6	7	8	9
Can be skipped for time constraints					*			*	
Activity can be a demo (teacher needs equipment from kit)									
Materials for student at home use can be purchased	*			*					*
Remote Learning Packet Provided								*	
Editable Student Sheets for Digital Use								*	
Investigation can be substituted with provided video								*	
Computer Simulation (student portal not needed)									
Computer Simulation (student portal required)									
Editable Teacher Power Point	*	*	*	*	*	*	*	*	*
Web/Digital Extension Resources			*		*	*	*		*

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Issues and Science: Third Edition, Designed for the NGSS
Energy | Remote Learning Supports

Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Can be skipped for time constraints									*			*			
Activity can be a demo (teacher needs equipment from kit)		*		*			*				*			*	
Materials for student at home use can be purchased							*			*	*			*	
Remote Learning Packet Provided		*		*		*	*				*			*	
Editable Student Sheets for Digital Use		*		*		*	*				*			*	
Data can be collected from provided video		*		*			*				*			*	
Computer Simulation (student portal not needed)															
Computer Simulation (student portal required)															
Editable Teacher Power Point	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Web/Digital Extension Resources			*			*									*

Investigation: Home Energy Use
Laboratory: Drive a Nail
Role Play: Roller Coaster Energy

Investigation: Shake the Shot
Reading: Conservation of Energy
Investigation: Follow the Energy

Laboratory: Mixing Hot and Cold Water
Laboratory: Thermal Energy Storage
Reading: Energy Across the Sciences

Design: Energy Transfer Challenge
Design: Conduction, Convection, and Radiation
Laboratory: Maximizing Solar Energy Transfer

Problem Solving: Hot Bulbs
Problem Solving: Improving Home Energy Efficiency



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Issues and Science: Third Edition, Designed for the NGSS
Chemistry of Materials | Remote Learning Supports

Activity	1	2	3	4	5	6	7	8	9	10	11	12	13
Can be skipped for time constraints													
Activity can be a demo (teacher needs equipment from kit)			*	*					*		*		
Materials for student at home use can be purchased		*				*		*			*	*	
Remote Learning Packet Provided		*	*	*		*		*	*	*	*	*	
Editable Student Sheets for Digital Use		*	*	*		*		*	*	*	*	*	
Data can be collected from provided video		*	*	*		*		*	*	*	*	*	
Computer Simulation (student portal not needed)													
Computer Simulation (student portal required)													
Editable Teacher Power Point	*	*	*	*	*	*	*	*	*	*	*	*	*
Web/Digital Extension Resources		*						*			*		*

Talking It Over: Exploring Materials
 Laboratory: Investigating Elements
 Laboratory: Physical and Chemical Properties of Materials
 Talking It Over: Determining Density
 Modeling: Modeling Properties of Materials
 Reading: Modeling Molecules
 Talking It Over: Structure and Properties of Materials
 Laboratory: What's in a State?
 Laboratory: Energy and Particle Movement
 Laboratory: Modeling State Changes
 Modeling: Making Polymers
 Talking It Over: The Impact of Plastics on Society

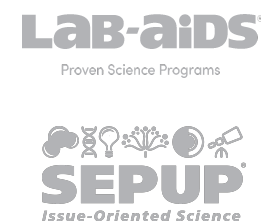


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Issues and Science: Third Edition, Designed for the NGSS
Chemical Reactions | Remote Learning Supports

Activity	1	2	3	4	5	6	7	8	9	10	11	12	13
Can be skipped for time constraints								*					
Activity can be a demo (teacher needs equipment from kit)	*	*				*		*	*			*	*
Materials for student at home use can be purchased				*			*	*					
Remote Learning Packet Provided	*	*		*		*	*	*	*			*	*
Editable Student Sheets for Digital Use	*	*		*		*	*	*	*			*	*
Data can be collected from provided video	*	*		*		*	*	*	*			*	*
Computer Simulation (student portal not needed)													
Computer Simulation (student portal required)													
Editable Teacher Power Point	*	*	*	*	*	*	*	*	*	*	*	*	*
Web/Digital Extension Resources	*											*	

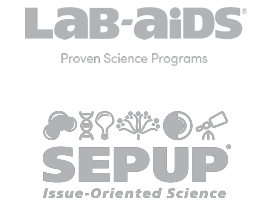
Investigation: Producing Circuit Boards
Laboratory: Evidence of Chemical Change
Reading: Physical Changes and Chemical Reactions
Modeling: Chemical Reactions at the Molecular Scale
Talking It Over: Physical or Chemical Change
Laboratory: Comparing the Masses of Reactants and Products
Modeling: Explaining Conservation of Mass
Investigation: Explaining Chemical Batteries
Laboratory: Thermal Energy and Reactions
Design: Developing a Prototype
Laboratory: Refining the Design
Laboratory: Recovering Copper
Laboratory: Another Approach to Recovering Copper



Issues and Science: Third Edition, Designed for the NGSS
Force and Motion | Remote Learning Supports

Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Can be skipped for time constraints		*	*	*	*	*		*		*			*		
Activity can be a demo (teacher needs equipment from kit)		*	*	*	*	*		*					*		
Materials for student at home use can be purchased		*	*	*	*	*		*					*		
Remote Learning Packet Provided		*	*		*	*	*			*		*	*		
Editable Student Sheets for Digital Use		*	*		*	*	*			*		*	*		
Data can be collected from provided video		*	*			*	*			*		*	*		
Computer Simulation (student portal not needed)															
Computer Simulation (student portal required)															
Editable Teacher Power Point	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Web/Digital Extension Resources	*	*	*							*					*

Talking It Over: Improving Car and Driver Safety
 Laboratory: Measuring and Graphing Speed
 Laboratory: Speed and Kinetic Energy
 Laboratory: Mass and Kinetic Energy
 Investigation: Quantifying Kinetic Energy
 Laboratory: Changing Direction
 Laboratory: Changing Speed
 Investigation: Force, Mass, and Acceleration
 Reading: Newton's Laws of Motion
 Investigation: Interacting Objects
 Modeling: Newton's Third Law
 Problem Solving: Collisions and Changes in Motion
 Laboratory: Braking Distance
 Problem Solving: Coming to a Stop
 Design: Designing a Car and Driver Safety System



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Issues and Science: Third Edition, Designed for the NGSS
Fields and Interactions | Remote Learning Supports

Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Can be skipped for time constraints									*	*					
Activity can be a demo (teacher needs equipment from kit)				*	*			*	*			*			
Materials for student at home use can be purchased				*	*			*					*		
Remote Learning Packet Provided					*			*	*			*			
Editable Student Sheets for Digital Use					*							*			
Data can be collected from provided video					*			*	*			*			
Computer Simulation (student portal not needed)										*	*				
Computer Simulation (student portal required)								*							
Editable Teacher Power Point	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Web/Digital Extension Resources		*						*		*	*				

Problem Solving: Save the Astronaut!
Reading: The Apollo Missions
Design: Gravitational Transporter

Investigation: Gravitational Force
Design: Mapping Magnetic Fields

Reading: Magnetic Transporter
Investigation: Gravitational and Magnetic Fields

Laboratory: Static Electricity
Computer Simulation: Electrostatic Force

Modeling: Visualizing an Electric Field

Design: Electric Field Transporter
Reading: Gyrosphere Rescue

Reading: Electric and Magnetic Fields
Talking It Over: Evaluating Transporter Designs



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