

Summer School with Nearpod

Science Lesson Guide for grades K-8



Summer School with Nearpod

Save prep time with these ready-to-teach lessons, activities and videos specifically selected for your summer school classroom to boost learning in Science. Lessons are designed to be delivered in a flexible format whether in-person, remote, or in-between. Use it as a daily guide or pick and choose by topic and grade to meet your students where they are.



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● Lesson
 ● Video
 ● Activity

GRADES K-2 SCIENCE- WEEK / DAY

	Day 1	Day 2	Day 3	Day 4	Day 5
Introducion to Science	<ul style="list-style-type: none"> • What is a Scientist?: K-2 	<ul style="list-style-type: none"> • Draw It: Motion of Objects: K-2 • Draw It: Observable Properties: K-2 • Time to Climb: Sorting by Properties: K-2 	<ul style="list-style-type: none"> • Drag & Drop: Observable Properties: Heavy or Light • Drag & Drop: Observable Properties: Sink or Float 	<ul style="list-style-type: none"> • Drag & Drop: The Five Senses • Time to Climb: Show Me Your Senses: K-2 	<ul style="list-style-type: none"> • Matching Pairs: Changing States of Matter: Descriptions: 2 • Matching Pairs: Changing States of Matter: Examples: 2 • Matching Pairs: States of Matter: 2 • Draw It: Changes in Matter: K-2 • Time to Climb: Evaporation: K-2
Living & Nonliving Things, Animals	<ul style="list-style-type: none"> • Living and Nonliving: K-2 • Drag & Drop: Living & Nonliving • Time to Climb: Living & Non-Living Things K-2 • Matching Pairs: Needs of Living Things: K 	<ul style="list-style-type: none"> • Parts of Plants & Animals: K • Draw It: Needs of Plants & Animals: K-2 • Matching Pairs: Types of Animals: 1 	<ul style="list-style-type: none"> • Adult Animals and Their Offspring: K-1 • Draw It: Behavior Patterns of Parents & Offspring: K-2 • Draw It: Observing Parents & Offspring: K-2 • Draw It: Parents & Offspring: Alike & Different: K-2 	<ul style="list-style-type: none"> • Animal Coverings: K • Animal Body Coverings • Drag & Drop: Animals Preparing for Winter • Matching Pairs: Camouflage & Survival Identification: 1 • Matching Pairs: Camouflage & Survival 	<ul style="list-style-type: none"> • Turtles: K-2 • Basic Parts of Penguins: K • Drag & Drop: Life Cycle of a Frog • Draw It: Life Cycle of a Butterfly: K-2 • Time to Climb: Life Cycle of a Butterfly
Plants	<ul style="list-style-type: none"> • Basic Needs of Plants: K-2 • Plants Everywhere: K • Matching Pairs: Plants: 1 	<ul style="list-style-type: none"> • Plant Parts & Their Jobs • Drag & Drop: Labeling the Parts of a Plant • Matching Pairs: Identifying Plant Parts: 1 • Time to Climb: Parts of a Plant K-2 	<ul style="list-style-type: none"> • Parts of a Plant • Matching Pairs: Identifying Characteristics of Plant Parts: 1 • Matching Pairs: Characteristics of Plant Parts: K • Matching Pairs: Functions of Plants: 1 	<ul style="list-style-type: none"> • Inside a Tree Trunk: 1 • Time to Climb: Seeds K-2 	<ul style="list-style-type: none"> • Draw It: Life Cycle of a Bean: K-2 • Drag & Drop: The Life Cycle of a Plant • Matching Pairs: Photosynthesis: 2 • Matching Pairs: Pollination: 2

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GRADES 3-5 SCIENCE - WEEK / DAY

	Day 1	Day 2	Day 3	Day 4	Day 5
Animal Classification	<ul style="list-style-type: none"> • Animal Classification • Time to Climb: Animal Classifications 	<ul style="list-style-type: none"> • Vertebrates • Invertebrates • Drag & Drop: Animal Classifications: Part 1 	<ul style="list-style-type: none"> • Animals: Amphibians: 2-3 • Animals: Fish: 2-3 • Animals: Mammals: 2-3 • Animals: Reptiles: 2-3 • Animals: Arthropods: 2-3 	<ul style="list-style-type: none"> • Drag & Drop: Animal Classifications: Part 2 • Matching Pairs: Animal Classification: Identification: 3 • Matching Pairs: Animal Classification: Vocabulary: 3 • Draw It: Animal Classification: 3-5 • Draw It: The Animal Kingdom: 3-5 	<ul style="list-style-type: none"> • Carnivores: 2-4 • Herbivores: 2-4 • Matching Pairs: Omnivores, Herbivores, and Carnivores Classifying: 5 • Matching Pairs: Omnivores, Herbivores, and Carnivores: 5
Animals and Humans	<ul style="list-style-type: none"> • Body Systems: Introduction • Drag & Drop: The Human Body • Time to Climb: The Human Body: 3-5 	<ul style="list-style-type: none"> • The Life Cycle of a Butterfly: 2-3 • The Life Cycle of a Frog: 2-3 • Draw It: Metamorphosis: Life Cycle of a Frog: 2-5 • Drag & Drop: Life Cycle of a Frog • Drag & Drop: Life Cycle of a Beetle • Time to Climb: Metamorphosis • Time to Climb: Life Cycles 	<ul style="list-style-type: none"> • Inherited Traits & Learned Behaviors: 3-5 • Drag & Drop: Inherited & Acquired Traits • Time to Climb: Inherited & Acquired Traits 	<ul style="list-style-type: none"> • Matching Pairs: Animal Sense: Examples: 4 • Matching Pairs: Animal Senses: Vocabulary: 4 • Matching Pairs: Animal Body Systems: Examples: 5 • Matching Pairs: Animal Body Systems: Vocabulary: 5 	<ul style="list-style-type: none"> • Draw It: Variation & Survival Among Species: 3-5 • Matching Pairs: Animal Survival: Application: 3 • Matching Pairs: Animal Survival: Vocabulary: 3 • Time to Climb: Animal Survival: 3-5
Animals and Plants	<ul style="list-style-type: none"> • Matching Pairs: Plant and Animal Behaviors: Examples: 4 • Matching Pairs: Plant and Animal Behaviors: Vocabulary: 4 • Time to Climb: Plants and Animals in the Winter 	<ul style="list-style-type: none"> • Time to Climb: Interdependence: Energy & Food: 3-5 • Time to Climb: Interdependence: Animals & Seasons: 3-5 	<ul style="list-style-type: none"> • Drag & Drop: Producers, Consumers & Decomposers 	<ul style="list-style-type: none"> • Time to Climb: Parts of a Plant 3-5 • Draw It: Compare & Contrast Plant Life Cycles: 2-5 • Draw It: Comparing Plant Life Cycles: 2-5 • Drag & Drop: Life Cycle of a Bean: 3-5 	<ul style="list-style-type: none"> • The Sun's Energy: 5 • Matching Pairs: Seedless Plants Identification: 5 • Matching Pairs: Seedless Plants: Vocabulary: 5 • Time to Climb: Living Organisms: Plants: 3-5

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GRADES 3-5 SCIENCE - WEEK / DAY

	Day 1	Day 2	Day 3	Day 4	Day 5
Environment and Weather	<ul style="list-style-type: none"> • Food Chains & Food Webs • Drag & Drop: Food Chains • Drag & Drop: Food Webs • Draw It: Food Chains: 3-5 • Draw It: Food Webs: 3-5 • Draw It: Modeling a Food Web: 3-5 • Time to Climb: Food Chains 	<ul style="list-style-type: none"> • Earth's Water: 4-6 • What Is the Water Cycle? • Drag & Drop: The Water Cycle • Time to Climb: Parts of the Water Cycle: 3-5 • Matching Pairs: Water Resources: Examples: 5 • Matching Pairs: Water Resources: Vocabulary : 5 	<ul style="list-style-type: none"> • Alternative Energy: Renewable Resources • Natural Resources • Drag & Drop: Renewable & Nonrenewable Resources • Matching Pairs: Identifying Resources on Earth: 4 • Matching Pairs: Protecting Earth's Resources: Vocabulary: 5 	<ul style="list-style-type: none"> • Time to Climb: Climate Zones: 3-5 • Matching Pairs: Identifying Climate Types: 3 • Matching Pairs: Climate Controls: 3 	<ul style="list-style-type: none"> • Matching Pairs: Weather- Related Hazards: 3 • Time to Climb: Weather Impacts: 3-5 • Matching Pairs: Natural Disasters: Examples: 4 • Matching Pairs: Natural Disasters: Vocabulary: 4 • Hurricanes
Ecosystems	<ul style="list-style-type: none"> • Ecosystems: Introduction: 3-5 • Ecosystems • Drag & Drop: Ecosystems • Draw It: Ecosystems 3-5 	<ul style="list-style-type: none"> • Ecosystems: Grasslands: 3-5 • Grasslands 	<ul style="list-style-type: none"> • Ecosystems: Desert: 3-5 • Deserts • Ecosystems: Tundra: 3-5 • Tundras 	<ul style="list-style-type: none"> • Forests • Ecosystems: Tropical Forest: 3-5 • Coniferous and Deciduous Forests: 3-5 	<ul style="list-style-type: none"> • Ecosystems: Freshwater: 3-5 • Ecosystems: Saltwater: 3-5
Geology	<ul style="list-style-type: none"> • The Rock Cycle • Types of Rocks • Drag & Drop: Types of Rocks • Matching Pairs: Types of Rock: 4 • Matching Pairs: Types of Rocks: Vocabulary: 4 • Time to Climb: Types of Rocks 	<ul style="list-style-type: none"> • Draw It: Mineral: Mohs Hardness Scale: 3-5 • Draw It: Minerals: 3-5 	<ul style="list-style-type: none"> • Fossils • Draw It: Body Fossils & Trace Fossils: 3-5 • Draw It: Fossil Formation: 3-5 • Draw It: Fossil Types: 3-5 • Matching Pairs: Fossils Identification: 3 • Matching Pairs: Fossils Vocabulary: 3 	<ul style="list-style-type: none"> • Physical & Chemical Weathering • Weathering & Erosion • Matching Pairs: Physical Weathering: Examples: 4 • Matching Pairs: Physical Weathering: Vocabulary: 4 • Time to Climb: Weathering & Erosion: 3-5 	<ul style="list-style-type: none"> • Earthquakes • Matching Pairs: Plate Tectonics: Vocabulary: 4 • Matching Pairs: Plate Tectonics: Vocabulary: 4 • Time to Climb: Earth's Landforms

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GRADES 3-5 SCIENCE - WEEK / DAY

	Day 1	Day 2	Day 3	Day 4	Day 5
Astronomy	<ul style="list-style-type: none"> • The Sun: 3-5 • Time to Climb: The Sun: 3-5 • Time to Climb: Stars: 3-5 	<ul style="list-style-type: none"> • Characteristics of the Moon: 3-5 • Drag & Drop: Moon Properties: 3-5 • Observing Moon Phases <ul style="list-style-type: none"> • Moon Phases • Draw It: Diagram: Moon Phases: 4-8 • Draw It: Moon Phases: 4-8 • Time to Climb: Phases of the Moon 	<ul style="list-style-type: none"> • Rotation and Revolution: 4-6 • Matching Pairs: Earth's Rotation: Examples: 5 • Matching Pairs: Earth's Rotation: Vocabulary: 5 • Drag & Drop: Earth's Spheres 	<ul style="list-style-type: none"> • Planets <ul style="list-style-type: none"> • Drag & Drop: Planets in Our Solar System • Time to Climb: Planets • Jupiter 	<ul style="list-style-type: none"> • The Solar System <ul style="list-style-type: none"> • Draw It: Our Solar System: 3-5 • Drag & Drop: Our Solar System • Matching Pairs: Solar System Defined: 5 • Matching Pairs: Solar System Exploration: 5
Simple Machines, Forces, and Motion	<ul style="list-style-type: none"> • Work and Simple Machines: 2-4 • Drag & Drop: Simple Machines • Time to Climb: Simple Machines: 3-5 	<ul style="list-style-type: none"> • Simple Machines: Inclined Plane: 2-4 • Simple Machines: Pulley: 2-4 • Simple Machines: Screw: 2-4 • Simple Machines: Wedge: 2-4 • Simple Machines: Wheel and Axle: 2-4 	<ul style="list-style-type: none"> • Contact & Non-Contact Forces: 3-6 • Matching Pairs: Types of Forces: 3 • Draw It: Balanced and Unbalanced Forces: 3-5 	<ul style="list-style-type: none"> • Draw It: Motion: Predictable Patterns: 3-5 • Draw It: Predictable Patterns of Motion: 3-5 • Matching Pairs: Newton's Laws of Motion: 3 	<ul style="list-style-type: none"> • How Does Force Make Things Move? <ul style="list-style-type: none"> • Time to Climb: Motion of Objects: 3-5 • Time to Climb: Familiar Forces: 3-5
Energy	<ul style="list-style-type: none"> • Energy: 3-5 • Energy <ul style="list-style-type: none"> • Drag & Drop: Forms of Energy: 3-5 • Draw It: Diagram: Forms of Energy: 3-5 • Time to Climb: All Sorts of Energy: 3-5 • Time to Climb: What is Energy?: 3-5 • Matching Pairs: Types of Energy: Examples: 4 • Matching Pairs: Types of Energy: Vocabulary: 4 	<ul style="list-style-type: none"> • Heat Transfer <ul style="list-style-type: none"> • Drag & Drop: Energy Transfer • Draw It: Energy Transfer: 3-5 • Time to Climb: Energy Transfer: 3-5 	<ul style="list-style-type: none"> • Understanding Electrical Fields: 4-6 <ul style="list-style-type: none"> • Matching Pairs: Creating Electricity: 4 • Matching Pairs: Static Electricity Classification: 4 • Drag & Drop: Wave Properties: 3-5 • Draw It: Wave Properties: 3-5 • Time to Climb: Wave Properties: 3-5 • Sound <ul style="list-style-type: none"> • Time to Climb: Vibration: 3-5 	<ul style="list-style-type: none"> • Draw It: Diagram: Energy Force: 3-5 • Matching Pairs: Forces of Energy Characteristics: 4 • Matching Pairs: Identifying Forces of Energy: 4 	<ul style="list-style-type: none"> • Matching Pairs: Conserving Energy: Examples: 4 • Matching Pairs: Energy Patterns: Examples: 3 • Matching Pairs: Energy Patterns: Vocabulary: 3 • Drag & Drop: Conductors & Insulators

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GRADES 3-5 SCIENCE - WEEK / DAY

	Day 1	Day 2	Day 3	Day 4	Day 5
Matter	<ul style="list-style-type: none"> • What Is Matter? • Draw It: Properties of Matter: 3-5 • Time to Climb: Matter • Drag & Drop: Matter: Solids, Liquids & Gases 	<ul style="list-style-type: none"> • States of Matter • Matching Pairs: States of Matter: Examples: 5 • Matching Pairs: States of Matter: Vocabulary: 5 	<ul style="list-style-type: none"> • The Mass of Matter: 3-4 • Draw It: Matter: Changing States: 2-5 • Time to Climb: Change in Matter: 3-5 	<ul style="list-style-type: none"> • Physical & Chemical Changes: 5 • Drag & Drop: Physical & Chemical Changes 	<ul style="list-style-type: none"> • Matching Pairs: Chemical Bonds: Examples: 5 • Matching Pairs: Chemical Bonds: Vocabulary: 5

GRADES 6-8 SCIENCE - WEEK / DAY

	Day 1	Day 2	Day 3	Day 4	Day 5
Human Body Systems	<ul style="list-style-type: none"> • The Digestive System • The Digestive System • Drag & Drop: The Digestive System • Draw It: The Digestive System: 6-12 	<ul style="list-style-type: none"> • The Nervous System: 6-8 • The Nervous System • Drag & Drop: The Nervous System: The Brain • Draw It: The Nervous System: The Brain: 6-12 • Draw It: Key Functions of the Brain: 6-12 	<ul style="list-style-type: none"> • The Respiratory System • The Respiratory System • Drag & Drop: The Respiratory System • Draw It: The Respiratory System: 6-12 	<ul style="list-style-type: none"> • The Circulatory System: 6-8 • The Circulatory System • Drag & Drop: The Circulatory System: The Human Heart • Draw It: The Circulatory System: The Heart: 6-12 • Time to Climb: The Circulatory System 	<ul style="list-style-type: none"> • The Muscular System: 6-8 • The Skeletal System: 6-8 • The Skeletal System
Biology	<ul style="list-style-type: none"> • Cell Theory: An Introduction to Cells: 6-8 • Matching Pairs: Cells: Application: 6 • Matching Pairs: Cells: Vocabulary: 7 • Matching Pairs: Identifying Cell Structures: 7 • Time to Climb: The Parts of a Cell 	<ul style="list-style-type: none"> • Drag & Drop: Animal Cell Structure: 6-8 • Draw It: Animal Cell Structure: 6-8 • Draw It: Modeling an Animal Cell: 6-8 	<ul style="list-style-type: none"> • Photosynthesis • Drag & Drop: Plant Cell Structure: 6-8 • Draw It: Plant Cell Structure: 6-8 • Drag & Drop: Photosynthesis • Draw It: Photosynthesis: 6-8 	<ul style="list-style-type: none"> • Asexual Reproduction: 6-8 • Matching Pairs: Asexual Reproduction: Application: 7 • Matching Pairs: Asexual Reproduction: Vocabulary: 7 	<ul style="list-style-type: none"> • Dominant & Recessive Traits • Drag & Drop: Punnett Squares: 6-8 • Draw It: Punnett Square: Genotype: 6-8 • Draw It: Punnett Square: Phenotype: 6-8 • Draw It: Punnett Squares: 6-8

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GRADES 6-8 SCIENCE - WEEK / DAY

	Day 1	Day 2	Day 3	Day 4	Day 5
Environmental Science	<ul style="list-style-type: none"> ● Food Webs and Energy: 4-7 ● Matching Pairs: Food Chains: Application: 6 ● Matching Pairs: Food Chains: Vocabulary: 6 ● Draw It: Creating a Food Web: 5-8 ● Draw It: Food Webs: 5-8 ● Drag & Drop: Food Webs: 6-8 ● Matching Pairs: Food Chains & Webs: Application: 6-8 	<ul style="list-style-type: none"> ● The Water Cycle ● Earth's Water: 4-6 ● Drag & Drop: The Water Cycle: 6-8 ● Draw It: The Water Cycle: 6-8 ● Matching Pairs: Water Cycle: 6 ● Time to Climb: The Water Cycle ● Matching Pairs: Identifying Parts of the Water Cycle: 6 	<ul style="list-style-type: none"> ● Earth's Atmosphere ● Drag & Drop: Layers of the Atmosphere ● Draw It: Layers of the Atmosphere: 6-8 ● Matching Pairs: Analyzing Earth's Atmosphere: 6 ● Matching Pairs: Layers of Earth's Atmosphere: 6 	<ul style="list-style-type: none"> ● Ecosystems: 5-7 ● Symbiosis Among Animals ● Time to Climb: Ecosystems ● Sustainability ● Matching Pairs: Natural Resources: Application: 8 ● Matching Pairs: Natural Resources: Vocabulary: 8 ● Drag & Drop: Renewable & Nonrenewable Resources 	<ul style="list-style-type: none"> ● Climate ● Climate Zones: 5-8 ● Climate Zones: Dry: 5-7 ● Climate Zones: Polar: 5-7 ● Climate Zones: Temperate: 5-7 ● Climate Zones: Tropical: 5-7
Geology	<ul style="list-style-type: none"> ● The Rock Cycle ● Drag & Drop: The Rock Cycle: 6-8 ● Time to Climb: Rock Cycle: 6-8 ● Sedimentary Rock Formation: 6-8 ● Sedimentary Rocks: 6-8 ● Drag & Drop: Types of Rocks 	<ul style="list-style-type: none"> ● Physical & Chemical Weathering ● Matching Pairs: Types of Weathering: 7 ● Matching Pairs: Weathering: Examples: 7 	<ul style="list-style-type: none"> ● Earth's Layers: 6-8 ● Drag & Drop: Earth's Layers: 6-8 ● Draw It: Describing Earth's Layers: 6-8 ● Draw It: Earth's Layers: 6-8 ● Draw It: Layers of Earth: 6-8 ● Time to Climb: Layers of Earth: 6-8 ● Time to Climb: Earth Layers & Plate Tectonics 	<ul style="list-style-type: none"> ● Plate Tectonics ● Drag & Drop: Major Tectonic Plates ● Drag & Drop: Plate Tectonics ● Draw It: Plate Tectonics: 6-8 ● Matching Pairs: Plate Tectonics: Application ● Matching Pairs: Plate Tectonics: Vocabulary ● Draw It: Convergent, Divergent, Transform Plate Tect.: 6-8 ● Time to Climb: Tectonic Plates: 6-8 	<ul style="list-style-type: none"> ● How Do We Know About Earth's Past? ● Matching Pairs: Geologic Time: Vocabulary: 7 ● Matching Pairs: Fossils: Vocabulary: 8 ● Matching Pairs: Types of Fossils: 8

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GRADES 6-8 SCIENCE - WEEK / DAY

	Day 1	Day 2	Day 3	Day 4	Day 5
Astronomy and Weather	<ul style="list-style-type: none"> • Phases of the Moon: 4-6 • Draw It: Diagram: Moon Phases: 4-8 • Draw It: Moon Phases: 4-8 • The Moon and Tides: 6-8 	<ul style="list-style-type: none"> • Rotation and Revolution: 4-6 • Solstice and Equinox 	<ul style="list-style-type: none"> • Solar & Lunar Eclipses: 6-12 • Drag & Drop: Lunar Eclipse • Drag & Drop: The Lunar Cycle • Drag & Drop: Solar Eclipse • Draw It: Lunar Eclipse: 6-8 • Draw It: Solar Eclipse: 6-8 • Time to Climb: Solar & Lunar Eclipses: 6-8 	<ul style="list-style-type: none"> • Drag & Drop: Solar System: Patterns of Motion • Draw It: Solar System: Patterns of Motion: 6-8 • Matching Pairs: Solar System Roles: 6 • Matching Pairs: Solar Systems: Planets: 6 • Time to Climb: Solar System 	<ul style="list-style-type: none"> • Weather • Air Pressure and Weather: 6-8 • High Pressure vs. Low Pressure Systems: 6-8 • Weather Fronts: 6-8 • Time to Climb: Weather & Climate: 6-8
Matter, Atoms, and Elements	<ul style="list-style-type: none"> • Potential & Kinetic Energy • Drag & Drop: Potential & Kinetic Energy • Draw It: Potential & Kinetic Energy: 6-8 • Matching Pairs: Identifying Potential and Kinetic Energy: 8 • Matching Pairs: Potential and Kinetic Energy: Vocabulary: 8 	<ul style="list-style-type: none"> • Heat Transfer: Conduction: 6-8 • Heat Transfer: Convection • Heat Transfer: Radiation: 6-8 	<ul style="list-style-type: none"> • Matching Pairs: Thermal Energy: Application: 8 • Matching Pairs: Thermal Energy: Vocabulary: 8 • Matching Pairs: Solar Energy: Questions: 8 • Matching Pairs: Solar Energy: Vocabulary: 8 	<ul style="list-style-type: none"> • Magnets & Magnetic Fields • Understanding Electrical Fields: 4-6 • Drag & Drop: Electromagnetic Spectrum • Matching Pairs: Electromagnetic Spectrum: Application: 6 • Matching Pairs: Electromagnetic Spectrum: Vocabulary: 6 • Time to Climb: Electromagnetic Spectrum: 6-8 	<ul style="list-style-type: none"> • Matching Pairs: Waves: Application: 8 • Matching Pairs: Waves: Vocabulary: 8 • Time to Climb: Energy • Time to Climb: Waves
Forces and Motion	<ul style="list-style-type: none"> • Balanced and Unbalanced Forces: 6-8 • Matching Pairs: Classifying Types of Forces: 6 • Matching Pairs: Forces All Around: 6 	<ul style="list-style-type: none"> • Newton's First Law of Motion: 6-9 • Newton's Second Law of Motion: 6-9 • Newton's Third Law of Motion: 6-9 	<ul style="list-style-type: none"> • Matching Pairs: Newton's Laws of Motion: Application: 6 • Matching Pairs: Newton's Laws of Motion: Vocabulary: 6 	<ul style="list-style-type: none"> • Mass, Distance & Gravity • Matching Pairs: Gravity Introduction: 6 	<ul style="list-style-type: none"> • Understanding Distance & Displacement: 6-8 • Calculating Velocity: 6-8