

K-12 Probe Alignment to Essential Standards_Revised June 2016.xlsx
Elementary

Essential Standard	Formative Assessment Probes
K.P.1 Understand the positions and motions of objects and organisms observed in the environment.	<i>Do the waves move the boat?(K-2V1-p75)</i>
K.P.2 Understand how objects are described based on their physical properties and how they are used.	<i>Can It Reflect Light? (V1-p25)</i> <i>Sink or Float (K-2V1-p45)</i> <i>Watermelon and Grape(K-2V1-p49)</i> <i>Is It Matter (K-2V1-p53)</i>
K.E.1 Understand change and observable patterns of weather that occur from day to day and throughout the year.	<i>Senses (K-2V1-p 35)</i>
K.L.1 Compare characteristics of animals that make them alike and different from other animals and nonliving things.	<i>Is It an Animal? (V1-p117) (K-2V1-p9)</i> <i>Respiration (V3-p131)</i> <i>Is it made of parts? (K-2V1-p21)</i> <i>Seeds in a Bag (K-2V1-p25)</i> <i>Do they need air? (K-2V1-p 31)</i> <i>Is It Living? (K-2V1-p3; V1-p123)</i>
1.P.1 Understand how forces (pushes or pulls) affect the motion of an object.	<i>Does It Have to Touch? (PS-V1-p75)</i> <i>When is there Friction(K-2V1-p67)</i> <i>Marble Roll (K-2V1-p71)</i> <i>Big and Small Magnets (K-2V1-p87)</i> <i>Talking About Forces (PS-V1-71)</i>
1.E.1 Recognize the features and patterns of the earth/moon/sun system as observed from Earth.	<i>Gazing at the Moon (V1-p177)</i> <i>When is My Shadow Longest?(K-2V1-p105)</i> <i>Objects in the Sky (V2-p185)</i> <i>Seeing the Moon (AS-p91)</i> <i>What Lights up the Moon? (K-2V1-p109)</i> <i>When Is the Next Full Moon? (K-2V1-p113)</i> <i>Sunrise to Sunset (AS-p43)</i>
1.E.2 Understand the physical properties of Earth materials that make them useful in different ways.	<i>Is It a Rock? Version 1 (V2.p151)</i> <i>What Makes up a Mountain (K-2V1-p93)</i> <i>Describing Soil (K-2V1-p97)</i> <i>Is a Brick a Rock? (K-2V1-p101)</i> <i>Big and Small Seeds (K-2V1-p 39)</i> <i>Is It a Rock? Version 2 (V2.p157)</i>
1.L.1 Understand characteristics of various environments and behaviors of humans that enable plants and animals to survive.	<i>Is It an Animal? (V1-p117) (K-2V1-p9)</i> <i>Respiration (V3-p131)</i> <i>Is It Living? (V1-p123; K-2V1-p3)</i> <i>Is It a Plant? (V2-p93; K-2V1-p15)</i> <i>Seeds in a Bag (K-2V1-p25)</i> <i>Needs of Seeds (V2-p101)</i> <i>Plants in the Dark and Light (V2-p107)</i> <i>Do they need air? (K-2V-p 31)</i> <i>Senses (K-2V-p 35)</i> <i>Big and Small Seeds (K-2 V-p 39)</i> <i>Is It Food? (V4-p91)</i>
1.L.2 Summarize the needs of living organisms for energy and growth.	<i>Is It an Animal? (V1-p117) (K-2V1-p 9)</i> <i>Respiration (V3-p131)</i> <i>Is It Living? (V1-p123; K-2V1-p3)</i> <i>Is It a Plant? (V2-p93)</i> <i>Seeds in a Bag (K-2V1-p25)</i> <i>Needs of Seeds (V2-p101)</i> <i>Do they need air? (K-2V1-p31)</i> <i>Big and Small Seeds (K-2V1-p39)</i> <i>Plants in the Dark and Light (V2-p107)</i>
2.P.1 Understand the relationship between sound and vibrating objects.	<i>Making Sound (V1-p43)</i> <i>Rubber Band Box (K-2V1-p83)</i>
2.P.2 Understand properties of solids and liquids and the changes they undergo.	<i>Ice Cubes in a Bag (V1-p49)</i> <i>Back and Forth (K-2V1-p63)</i>

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	<i>Is It a Solid? (V3-p25)</i> <i>Lemonade (V1-p55)</i> <i>Wet Jeans(V1-p155)</i>
2.E.1 Understand patterns of weather and factors that affect weather.	<i>What Are Clouds Made Of? (V3-p155)</i> <i>Shadow size (K-2V1-p79)</i>
2.L.1 Understand animal life cycles.	<i>Is It an Animal? (V1-p117; K-2Vp9)</i> <i>Sam's Puppy (V3-p125)</i> <i>Chicken Eggs (V4-p105)</i> <i>Does It Have a Life Cycle (V3-p111)</i>
2.L.2 Remember that organisms differ from or are similar to their parents based on the characteristics of the organism.	N/A
3.P.1 Understand motion and factors that affect motion.	<i>How Far Did It Go? (PS-V1-p15)</i> <i>Standing On One Foot (V4-p61)</i> <i>Talking About Gravity (V1-p97)</i>
3.P.2 Understand the structure and properties of matter before and after they undergo a change.	<i>Comparing Cubes (V2-p19)</i> <i>Floating Balloon (V3-p39)</i> <i>Floating Logs (V2-p27)</i> <i>Hot and Cold Balloons (V3-p45)</i> <i>Ice Cubes in a Bag (V1-p49)</i> <i>Is It a Solid? (V3-p25)</i> <i>Is It Matter? (V1-p79)</i> <i>Lemonade (V1-p55)</i> <i>Wet Jeans (V1-p155)</i> <i>What's in the Bubbles (V2-p65)</i> <i>Where Did the Water Come From? (V3-p163)</i> <i>What are Clouds Made Of?(V3-p155)</i>
3.P.3 Recognize how energy can be transferred from one object to another.	<i>The Mitten Problem (V1-p103)</i> <i>Objects and Temperature (V1-109)</i> <i>Ice-Cold Lemonade (V2-p77)</i> <i>Mixing Water (V2-p83)</i> <i>Do the Objects Need to Touch? (PS-V2-p15)</i> <i>How Will the Balloons Move? (PS-V2-p.19)</i>
3.E.1 Recognize the major components and patterns observed in the earth/moon/sun system.	<i>Darkness at Night (V2-p171)</i> <i>Shadow Size(K-2V1-p79)</i> <i>Me andMy Shadow (V3-p185)</i> <i>No Shadow (AS-p47)</i> <i>When Is My Shadow Longest (K-2V1-p105)</i> <i>What's Inside Our Solar System? (AS-p147)</i> <i>How Do Planets Orbit the Sun? (AS-153)</i> <i>What Lights up the Moon? (K-2V1-p109)</i> <i>Where Do Stars Go? (V3-p191)</i>
3.E.2 Compare the structures of the Earth's surface using models or three-dimensional diagrams.	<i>Beach Sand (V1-p163)</i>
3.L.1 Understand human body systems and how they are essential for life: protection, movement and support.	<i>Human Body Basics (V1-p139)</i> <i>Senses (K-2V1-p35)</i>
3.L.2 Understand how plants survive in their environments.	<i>Cucumber Seeds, (LS-V1-p9)</i> <i>Functions of Living Things (V1-p147)</i> <i>Is It a Plant? (V2-p93) (K-2V1-p15)</i> <i>Needs of Seeds (V2-p101)</i> <i>Seeds in a Bag (K-2V1-p25)</i> <i>Plants in the Dark and Light (V2-p107)</i> <i>Is It Food for Plants? (V2-p113)</i> <i>Is it made of parts? (K-2V1-p21)</i> <i>Big and small seeds (K-2V1-p39)</i> <i>Giant Sequoia Tree (V2-p121)</i>
4.P.1 Explain how various forces affect the motion of an object.	<i>Does It Have to Touch? (PS-V1-p75)</i> <i>Do the Objects Need to Touch? (PS-V2-p15)</i> <i>How Will the Balloons Move? (PS-V2-p.19)</i> <i>What Happens When You Bring a Balloon Near a Wall? (PS-V2-p27)</i>

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	<p><i>Magnets In Water (V4-p67)</i> <i>Can Magnets Push or Pull Without Touching? (PS-V2-p111)</i> <i>What Happens When You Wrap a Magnet With Alumnum Foil? (PS-V2-p123)</i> <i>Does a Magnet Work Without Air? (PS-V2-p131)</i> <i>Talking About Forces (PS-V1-p71)</i></p>
<p>4.P.2 Understand the composition and properties of matter before and after they undergo a change or interaction.</p>	<p><i>Ice Cubes in a Bag (V1-p49)</i> <i>Is It Matter? (V1-p79)</i> <i>Lemonade (V1-p55)</i> <i>The Rusty Nails (V1-p91)</i> <i>Can You Pick It Up With a Magnet? (PS-V2-p115)</i> <i>Does a Magnet Pick Up Any Kind of Metal? (PS-V2-p119)</i> <i>What Happens If You Use the Other End of the Magnet? (PS-V2-p127)</i> <i>Can It Be Electrically Charged? (PS-V2-p23)</i></p>
<p>4.P.3 Recognize that energy takes various forms that may be grouped based on their interaction with matter.</p>	<p><i>Can It Reflect Light? (V1-p25)</i> <i>ShadowSize(K-2V-p79)</i> <i>Apple In the Dark(V1-p31)</i> <i>Birthday Candles (V1-p37)</i> <i>Mirror on the Wall (V3-p51)</i> <i>One Wire or Two? (PS-V2-p53)</i> <i>How Can You Light the Bulb? (PS-V2-p59)</i></p>
<p>4.E.1 Explain the causes of day and night and phases of the moon.</p>	<p><i>What Causes Night and Day? (AS-p21)</i> <i>Chinese Moon (AS-p123)</i> <i>Gazing at the Moon (V1-p177)</i> <i>Going Through a Phase (V1-p183)</i> <i>Earth or Moon Shadow? (AS-p103)</i> <i>Crescent Moon (AS-p127)</i> <i>Darkness at Night (V2-p171)</i> <i>Emmy's Moon and Stars (V2-p177)</i> <i>Moonlight (V4-p161)</i></p>
<p>4.E.2 Understand the use of fossils and changes in the surface of the earth as evidence of the history of Earth and its changing life forms.</p>	<p><i>Mountain Age (V1-p169)</i> <i>Beach Sand (V1-p163)</i> <i>Where Does Oil Come From? (V4-p151)</i> <i>Mountaintop Fossil (V2-p165)</i> <i>Is It a Fossil? (EEnS-p91)</i> <i>Is It Erosion? (EEnS-p99)</i> <i>Can a Plant Break Rocks? (EEnS-p103)</i> <i>Grand Canyon (EEnS-p107)</i></p>
<p>4.L.1 Understand the effects of environmental changes, adaptations and behaviors that enable animals (including humans) to survive in changing habitats.</p>	<p><i>Global Warming (V4-p143)</i> <i>Functions of Living Things (V1-p147)</i> <i>Is It "Fitter"?(V4-p119)</i> <i>Senses (K-2V1-p35)</i> <i>Is It Food for Plants? (V2-p113)</i></p>
<p>4.L.2 Understand food and the benefits of vitamins, minerals and exercise.</p>	<p><i>Catching a Cold (V4-p125)</i> <i>Is It Food? (V4-p91)</i></p>
<p>5.P.1 Understand force, motion and the relationship between them.</p>	<p><i>Apple on the Desk (V3-p63)</i> <i>Apple on the Ground (PS-V1-p163)</i> <i>Ball on a String (PS-V1-p111)</i> <i>Dropping Balls (V3-p77)</i> <i>How Far Did It Go? (PS-V1-p15)</i> <i>Rolling Marbles (PS-V1-p59)</i> <i>Rolling Marbles (V3-p71)</i> <i>Talking About Gravity (V1-p97)</i></p>
<p>5.P.2 Understand the interactions of matter and energy and the changes that occur.</p>	<p><i>Burning Paper (V4-p23)</i> <i>Snap Blocks(K-2V1-p59)</i> <i>Cookie Crumbles (V1-p61)</i></p>

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	<i>Ice Cubes in a Bag (V1-p49)</i> <i>Is It Made of Molecules? (V1-p85)</i> <i>Is It Matter? (V1-p79)</i> <i>Is It Melting? (V1-p73)</i> <i>Lemonade (V1-p55)</i> <i>Nails in a Jar (V4-p31)</i> <i>Seedlings in a Jar (V1-p67)</i> <i>Sugar Water (V4-p11)</i> <i>The Rusty Nails (V1-p91)</i> <i>Wet Jeans (V1-p155)</i> <i>Water Cycle Diagram (EEnS-p49)</i> <i>Where Did the Water in the Puddle Go? (EEnS-p53)</i>
5.P.3 Explain how the properties of some materials change as a result of heating and cooling.	<i>Boiling Time and Temperature (V2-p53)</i> <i>Freezing Ice (V2-p59)</i> <i>Ice Water (V4-p45)</i> <i>Turning the Dial (V2-p47)</i> <i>Where Did the Water Come From? (V3-p163)</i> <i>The Mitten Problem (V1-p103)</i> <i>Objects and Temperature (V1-109)</i> <i>Ice-Cold Lemonade (V2-p77)</i> <i>Iron Bar (V4-p17)</i> <i>Mixing Water (V2-p83)</i> <i>Warming Water (V4-p53)</i>
5.E.1 Understand weather patterns and phenomena, making connections to the weather in a particular place and time.	<i>What are Clouds Made Of?(V3-p155)</i> <i>Rainfall (V3-p171)</i> <i>Camping Trip (V4-p137)</i> <i>Global Warming (V4-p143)</i> <i>How Many Oceans and Seas? (EEnS-p37)</i> <i>Weather Predictors (EEnS-p57)</i> <i>Does the Ocean Influence Our Weather or Climate? (EEnS-p65)</i>
5.L.1 Understand how structures and systems of organisms (to include the human body) perform functions necessary for life.	<i>Is It Made of Cells? (V1-p131)</i> <i>Human Body Basics (V1-p139)</i> <i>Whale and Shrew (V2-p137)</i> <i>Cells and Size (V3-p117)</i> <i>Sam's Puppy (V3-p125)</i> <i>Respiration (V3-p131)</i> <i>Functions of Living Things (V1-p147)</i> <i>Digestive System (V4-p131)</i>
5.L.2 Understand the interdependence of plants and animals with their ecosystem.	<i>Earth's Mass (V3-p147)</i> <i>Rotting Apple (V3-p139)</i> <i>Habitat Change (V2-p143)</i>
5.L.3 Understand why organisms differ from or are similar to their parents based on the characteristics of the organism.	<i>Baby Mice (V2-p129)</i>