

Harcourt Science Grade 1 NYC Edition Curriculum Map Units 1-4

September - October	November-December	January-February	March-April
Unit 1 Ready, Set, Science!	Unit 2 Animal Diversity	Unit 3 Properties of Matter	Unit 4 Weather and Seasons
Big Idea: How Do We Use Our Senses?	Big Idea: How are animals alike and different?	Big Idea: What are some properties of solids, liquids and gases?	Big Idea: What are some of the changes we notice between seasons?
Essential Questions: <ul style="list-style-type: none"> How do we put our senses to daily use? How do we handle facts safely? What are inquiry skills? 	Essential Questions: <ul style="list-style-type: none"> How are animals alike and different? What do animals need to survive? How do we classify animals into groups? 	Essential Questions: <ul style="list-style-type: none"> What is matter? How do we describe the properties of Matter? How can we compare and contrast different kinds of matter? 	Essential Questions: <ul style="list-style-type: none"> What are some of the changes we notice between seasons? How does weather affect what we wear and activities we do?
Standards: L1.1.a, L1.1.b, L1.1.c, L2.2.a, L2.2.b, L2.2b, L4.1.a, L4.1.g	Standards: L1.1.a, L1.1.b, L1.1.c, L2.2.a, L2.2.b, L2.2b, L4.1.a, L4.1.g	Standards: PS.1.a, PS.1.b, PS.1.c, PS.3.a, PS.3.b, PS.3.c, L4.1.g	Standards: PS.1.a, PS.1.b, PS.3.a, PS.3.b, PS.3.c, PS.4.a
How Do We Use Our Senses? <ul style="list-style-type: none"> Identify the five senses. Identify the body part associated with each sense. Explain how the five senses help us learn. Hide items in a bag and use your senses to figure out what the item is. How Do We Use Inquiry Skills? <ul style="list-style-type: none"> Draw conclusions based on observations. Identify inquiry skills used by scientists. Describe how to apply inquiry skills during investigations. How Do We Use Science Tools? <ul style="list-style-type: none"> List a balance to measure 	What are Living and Nonliving Things? <ul style="list-style-type: none"> Classify things as living and nonliving. Explain that living things all need food, water, and air. What Do Animals Need? <ul style="list-style-type: none"> Observe animals meeting their needs. Explain the animals need food, water, air, and shelter to live. How Can We Group Animals? <ul style="list-style-type: none"> Classify animals into groups, based on observable characteristics. Identify physical characteristics of animals and their functions. 	What is Matter? <ul style="list-style-type: none"> Classify solid objects based on size, shape and color. Recognize that everything around us is matter. Recognize that objects can be made up of parts too small to see without a hand lens. What Can We Observe about Solids? <ul style="list-style-type: none"> Understand that a solid is matter that keeps its shape. Measure and compare physical properties and solid properties. What Can We Observe about Liquids? <ul style="list-style-type: none"> Understand that matter flows are liquid. Understand that matter may 	What is Weather? <ul style="list-style-type: none"> Know that weather is the condition of the air outside. Use a chart to observe and compare weather data and weather patterns. How Can We Measure Weather? <ul style="list-style-type: none"> Observe and measure weather by using a variety of tools. Use thermometers to measure the temperature of air. Keep a graph of the month's weather. What Makes Clouds and Rain? <ul style="list-style-type: none"> Describe how clouds form when warmer air meets cooler air. Describe how rain forms from

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may 1 2018 an improved calculation method for rolling pressure and load torque of electrical drive engine is suggested further this method considers peculiar strain of product in high deformation zones and its accelerated motion in reverse mode improved analytical dependences for rolling pressure and load torque of electrical drive are reviewed

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mar 26 2020 yield stress strain hardening factor \times strain rate hardening factor \times thermal softening factor in the rolling of aluminium it is strain hardening which typically dominates at low temperatures on the other hand strain rate and temperature are more important in hot rolling