Science Kindergarten

Next Generation Science Standards	
K-PS2	Motion and Stability: Forces and Interactions
K-PS3	Energy
K-LS1	From Molecules to Organisms: Structures and Processes
K-ESS2	Earth's Systems
K-ESS3	Earth and Human Activity
K-2-ETS1	Engineering Design

Technology
SMART Board, Elmo, YouTube, BrainPOP Jr.

Standards	Essential Questions	Content	Skills	Assessment	Resources
Scientific Skills K-2-ETS1	**Scientific Skills** How do scientists observe the world?	**Scientific Skills** -Observations using five senses -Tools and safety: magnifying glass, ruler, measuring cups, thermometer, balance	**Scientific Skills** -Apply the appropriate sense to observe -Use tools safely	**Scientific Skills** -Teacher observations -Popcorn activity	**Scientific Skills** -*Science Fusion* by Houghton Mifflin Harcourt (2012) -Non-fiction books
Plants K-LS1	**Plants** How do plants grow and change?	**Plants** -Parts -Life cycle -Basic needs	**Plants** -Identify roots, stems, leaves, flowers, and seeds of a plant -Sequence the life cycle of plants -Identify the five basic needs of plants	**Plants** -Worksheet (teacher created)	**Plants** -*Science Fusion* by Houghton Mifflin Harcourt (2012) -Non-fiction books
Animals K-LS1	**Animals** How do animals grow and change?	**Animals** -Characteristics -Life cycle -Basic needs -Habitats	**Animals** -Categorize animals by characteristics -Sequence the life cycle of animals -Identify the four basic needs of animals -Identify the correct habitats for animals	**Animals** -Worksheet (teacher created)	**Animals** -*Science Fusion* by Houghton Mifflin Harcourt (2012) -Non-fiction books -Butterfly house

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Standards	Essential Questions	Content	Skills	Assessment	Resources
Weather K-ESS2 K-ESS3 K-PS3	**Weather** How and why is weather measured?	**Weather** -Sunlight -Wind -Temperature -Precipitation -Natural Hazards: tornado, earthquake, flood, blizzard	**Weather** -Record and graph daily weather -Measure temperature -Discuss how temperature affects the type of precipitation -Recognize how weather affects daily activities -Identify causes of natural hazards -Determine how to prepare for and react to natural hazards	**Weather** -Teacher observations -Graph	**Weather** -*Science Fusion* by Houghton Mifflin Harcourt (2012) -Non-fiction books -Calendar -Tornado bottle
Natural Resources K-ESS2 K-ESS3	**Natural Resources** How are natural resources used and conserved?	**Natural Resources** -Reduce, Reuse, Recycle -Human impact	**Natural Resources** -Identify natural resources -Recognize how to conserve natural resources	**Natural Resources** -Teacher observations -Project	**Natural Resources** -*Science Fusion* by Houghton Mifflin Harcourt (2012) -Non-fiction books -Rocks
Force and Motion K-PS2	**Force and Motion** How can the motion of objects be changed?	**Force and Motion** -Push -Pull -Speed -Direction -Gravity -Interactions	**Force and Motion** -Identify push and pull as ways to move things -Categorize all movements as either pushes or pulls -Use pushes and pulls to solve problems -Identify that gravity is a force that holds objects to the Earth -Change the direction of an object by pushing or pulling	**Force and Motion** -Teacher observations -STEM activities	**Force and Motion** -*Science Fusion* by Houghton Mifflin Harcourt (2012) -Non-fiction books -Magnets