WHAT'S NEW

June 2023

Course Improvements for K-5 Science will ensure that learners have a standards-aligned, media-rich, and interactive experience to provide an engaging learning environment to bolster understanding of course content and improve outcomes.

TIMELINE OF DELIVERY AND COMMUNICATIONS

These updated and more closely aligned courses will be customer-ready by June 30, 2023. The second semester (2 of 2) course will follow by December 8, 2023. Your Customer Success Manager will coordinate the delivery to your learning management system.

IMPROVED COURSE INFORMATION (PARTS 1 of 2)

	Science Kindergarten	Science Grade 1	Science Grade 2	Science Grade 3	Science Grade 4	Science Grade 5
SCED ID	03 230 G KGKG 0102	03 231 G 0101 0102	03 232 G 0202 0102	03 233 G 0303 0102	03 234 G 0404 0102	03 235 G 0505 0102
SM Course Description	The course examines basic scientific processes and methods. Those processes and methods are then used to identify the senses, classify matter, and describe energy, motion, and force. It also explores the engineering design process through designing a structure that will reduce the effects of the Sun on Earth.	The course investigates and applies the engineering design process to the concepts of light and sound. The course examines objects based on their properties of matter and compares different life cycles and organisms. Motion, forces, and the flow of energy are also described in the course.	The course digs deeper into the methods and tools scientists use. It explores the needs, life cycle, traits, and structures of plants and animals. That knowledge is then used to design a solution to a problem that will be tested and revised. Knowledge on matter, energy, motion, and forces is also gained through small experiments.	The course examines the states, properties, and changes that happen to matter. It also explores the forms of energy, investigates concepts of electricity and magnetism, and describes motion and forces. Knowledge of all these concepts lead to exploring the technological advancements that improve everyone's lives.	The course examines the scientific method, solving problems through engineering, matter, energy, and magnetism. It will also explore space including Earth's place and movement, as well as the different planets and objects in our solar system.	The course identifies important scientific discoveries and the scientific method, describes the engineering design process, and explains different types of technology found in everyday life. It also examines matter, energy, forces, magnetism, and concludes with explaining astronomy and the solar system.
Materials Required	**Students - Required:** aluminum foil, baking powder, ball, balloon, bowl, camera/video camera, cardboard, chair, cinnamon or any other spice, clay, crayons/markers/colored pencils, construction paper, container, cotton balls, dish soap, dough, an egg, fabric, flashlight, flour, frozen ice treat,	**Students - Required:** aluminum foil, ball, bean seeds, book, shoe box with a lid, bucket or sink, camera, cardboard, ceramic mug or plastic mug, ceramic plate, cereal box, colored construction paper, crayons/markers/ colored pencils, cooking oil, lamp, flashlight, foam cup, freezer, glass cup, glass prism, glue, hand mirror, heat source,	**Students - Required:** aluminum foil, antacid tablet, baking soda, balloon, balls of different sizes, book, bowl, box, building blocks, butter, candy sprinkles, chalk, coffee filter, computer paper, construction paper, assorted containers, cotton dish towel, crayons/markers/colored pencils, cups of different sizes, desk drawer, scale,	**Students – Required:** aluminum foil, balls, books and cardboard to make a ramp, 3 bowls, bowl or glass of water, cake mix, cake pan, clear glass dish, colored see-through plastic, crayons/markers/ colored pencils, 3 cups, cooking oil, 3 eggs, felt cloth, flashlight, food coloring (yellow, blue,	**Students - Required:** aluminum foil, baking soda, balloon, battery, battery holder, 3 books, large bowl, buzzer/bell, cardboard, chocolate, circuit board, connector wires with alligator clips, copper wire, D-cell battery, flashlight, glass or other container to hold water, graham crackers, insulated wires,	**Students - Required:** 3 assorted, ball, balloon (latex-free), balloon (regular), batteries, beach ball or basketball, books or other objects with weight, buzzer, cardboard, cardboard boxes, card stock, clear drinking glass, colored clay, colored paper, comb, copper wire, dinner knife, drinking straw, duct tape, electric lightbulb, feather,

	frying pan, glue, hand lens, ice cream sprinkles or colored sugar, ice cubes, lemon juice, magnet, matches, measuring cup, metal pot or pan, metal spoon, mirror, modeling clay, notebook paper, objects in solid or liquid states, objects of different sizes, shapes, colors, weights, smells, tastes, and textures, objects of different temperatures, objects made of metal or non-metal to test magnetism, paper towel roll, pencils, pepper, piece of fruit, plastic candy wrapper, plastic wrap, plate, potting soil, radio, rolling pin, rubber bands, ruler, salt, salt water, scale, scissors, small cups, spatula, stopwatch, stove or hot plate, straws, sugar, sugar water, tape, tape measure, thermometer, timer, tonic water, toy blocks, wax paper, wooden spoon, yarn **Optional:** action figures or dolls	household objects to create 3D model - based on student drawing, ice cubes, ice cube tray, magnets, metal can, objects of different sizes and colors, objects that will float, objects that could make a rolling ball stop, objects that could make a rolling ball change its motion, objects to add friction, objects to take away friction, paper, paper towel, paper towel roll, pencils, pictures of people at different life stages, pictures of the life cycle of a fish, picture of the life cycle of a chicken, pictures of the life cycle of a frog, pictures of different life cycle stages of two types of mammals, pictures of the different plants and animals, picture of seeds and a plant with flowers, pictures of local plants and animals, plastic sandwich bag, colored plastic wrap, pot, rice, assorted rubber bands, rubber ball, ruler, safety goggles, sandpaper, scissors, small ball, small colored object (such as ball or toy), string, tissue paper, toilet paper roll, toy car, water, wax paper, white paper, wooden spoon **Optional:** mixed vegetables, spoon, sugar	egg, fidget spinner or video of a fidget spinner, flashlight, funnel that fits over a cup, heat source, key, assorted magnets, matches or lighter, materials for building a prototype, merry-go-round or video of someone on a merry-go-round, metal screw, microwave, modeling clay, music player with speaker; one of the following: oil, dish soap, or milk; oven mitts, pan, assorted paper clips, paper towels, paper, pencils, penny, permanent marker, plastic, plastic wrap, plate, 4 potted plants, powdered drink mix, printables (see Course Syllabus for link), printer and printer paper, rock, rubber bands, rubber eraser, ruler, salt, safety gloves, sand paper, scissors, slide or video of someone going down a slide, soil that has small rocks in it, soup can, string, toilet paper roll, tools for measuring volume, toy windmill or video of a windmill, vinegar, wax paper, wood **Optional:** hand lens or binoculars, stopwatch or timer, thermometer	green, and red), glue, assorted magnets, measuring tape or ruler with standard and metric units, melted ice cream, metal hangers, microwave, mirror, mixing bowl, objects that will float (balloon, empty bottle, small hollow ball), objects that will sink (quarter, rocks, balled-up clay, soda can), objects with different sizes, shapes, colors, weights, and textures that are magnetic and non-magnetic, oven, oven mitts, paper, paper plate, pencil, pencil eraser, printables (see Course Syllabus for link), printer and printer paper, bar soap, spoon, tissue paper, tuning fork, various small objects, such as crayons and blocks **Optional:** letter board, magnetic letters	lightbulb, lightbulb holder, magnets, marble or small ball, marshmallow, mirror, nail, paper, paper clips, paper towels, pencils, plate, rubber band, ruler, scale, several solar cells or a large cell, small electric motor with a fan, stopwatch, study lamp, switch, tuning fork, vinegar **Optional:** heat lamp	flashlight, flashlight bulb, fork, fur, glass rod, hole punch, iron nail, lamp, lemon juice, marbles, masking tape, napkin, notebook, paper, paper clips, paper towel tube, pencils, ping pong ball, plate, pot, printables (see Course Syllabus for link), printer and printer paper, push pins or thumb tacks, ramp, assorted rubber bands, rubber rod, ruler with standard and metric units, sandwich bag, scissors, small conducting wires, soda can; spoon, stick or dowel rod; stove, sugar, table or stool, tall blocks, tape measure with standard and metric units, tennis ball or other similar size ball that can bounce, thread, timer or clock with a second hand, tissue paper, toothpicks, toy cars, tuning forks, US map with scale, water, white paper, wire to make a circuit, wooden board, wool sock or sweater **Optional:** globe

Improvements	• **100% Alignment to National Standards** • **Expanded Media & Interactivity Throughout Every Course** - additional media and interactivity added – o Reduced text heaviness, adding instructional images and over 1,200 graphics, videos, and interactives across K-5 curriculum, o New practice activities that are interactive for skill mastery and comprehension, o Updated Read Along interactive that has a new look and navigation for learners. • **Grading Support for All Open Response Questions -** additional grading supports for teachers including grading notes and rubrics o Added "Grading Notes" in the answer key and Speedgrader • **Reading Level Evaluated and Brought to Grade Level K-3** • **Evaluation of All Objectives and Assessment Items to Ensure Grade Level and Correct Measuring of Objectives**					
Availability Date	06/30/2023	06/30/2023	06/30/2023	06/30/2023	06/30/2023	06/30/23
Related Course Information / Delivery Date	Science Kindergarten (2 of 2) December 2023	Science Grade 1 (2 of 2) December 2023	Science Grade 2 (2 of 2) December 2023	Science Grade 3 (2 of 2) December 2023	Science Grade 4 (2 of 2) December 2023	Science Grade 5 (2 of 2) December 2023