Science Indicators Third Marking Period 2009-10

Grade	Indicator	Standard Indicator
Kindergarten	K.3.2	Investigate that things move in different ways, such as fast, slow, etc.
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Kindergarten	K.6.1	Describe an object by saying how it is similar to or different from another object.
<u> </u>	_	Use whole numbers, up to 100, in counting, identifying, measuring, and describing
Grade 1	1.2.1	objects and experiences.
		Use sums and differences of single-digit numbers in investigations and judge the
Grade 1	1.2.2	reasonableness of the answers.
Grade 1	1.2.3	Explain to other students how to go about solving numerical problems.
01440 1		Recognize and explain that water can be a liquid or a solid and can go back and
		forth from one form to the other. Investigate by observing that if water is turned into
		ice and then the ice is allowed to melt, the amount of water is the same as it was
Grade 1	1.3.1	before freezing.
01000 1	1.0.1	Investigate by observing and then describe that water left in an open container
Grade 1	1.3.2	disappears, but water in a closed container does not disappear.
	1.0.2	Investigate by observing and also measuring that the sun warms the land, air, and
Grade 1	1.3.3	water.
	1.0.0	Recognize that and demonstrate how things near the Earth fall to the ground
Grade 1	1.3.5	unless something holds them up.
Grade 2	2.1.1	Manipulate an object to gain additional information about it.
Grade 2 Grade 2	2.1.1 2.1.2c	Use tools such as rulers to gain more information about objects.
Grade 2 Grade 2	2.1.20 2.1.2d	Use tools such as balances to gain more information about objects.
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Crada 2	2 4 2	Describe both in writing and verbally objects accurately as possible and compare
Grade 2	2.1.3	observations with those of other people.
Grade 2	2.1.6	Use tools to investigate, observe, measure, design, and build things.
	0.4.7	Recognize and describe ways that some materials such as recycled paper, cans,
Grade 2	2.1.7	and plastic jugs can be used over again.
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Grade 2	2.2.2a	Make quantitive estimates of familiar lengths and check them by measurements.
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Grade 2	2.2.2b	Make quantitive estimates of familiar weights and check them by measurements.
	0.0.4	Assemble, describe, take apart, and or reassemble constructions using such things
Grade 2	2.2.4	as erector sets or building blocks.
Grade 2	2.2.5	Draw pictures and write brief descriptions of key features of an object.
		Recognize and explain that materials in nature such as grass, twigs, sticks, and
Grade 2	2.4.5	leaves can be recycled sometimes in different forms such as bird's nests.
		Recognize and explain that in measuring there is a need to use numbers between
Grade 2	2.5.1	whole numbers such as 2 1/2 cm.
Grade 2	2.6.1	Investigate that most objects are made of parts.
		Observe and explain that models may not be the same size, may be missing some
Grade 2	2.6.2	details, or may not be able to do all the same things as real things.
		Recognize and explain that when a scientific investigation is repeated, a similar
Grade 3	3.1.1	result is expected.
		Demonstrate the ability to work cooperatively while respecting the ideas of others
Grade 3	3.1.5	and communicating ones own conclusions about findings.
		Describe how discarded products contribute to the problem of waste disposal and
Grade 3	3.1.8	that recycling can help solve this problem.
		Measure and mix dry and liquid materials in prescribed amounts, following
Grade 3	3.2.2	reasonable safety precautions.
		Construct something used for performing a task out of paper, cardboard, wood,
Grade 3	3.2.5	plastic, metal or existing objects.

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Grade 3	3.2.6	Make sketches and write descriptions to aid in explaining procedures or ideas.
		Investigate and describe how moving air and water can be used to run machines
Grade 3	3.3.8	like windmills and waterwheels.
		Select and use appropriate measuring units such as centimeters (cm) and meters
Grade 3	3.5.1	(m), grams (g), and kilograms (kg), and degrees Celsius (°C).
_		Observe that and describe how some measurements are likely to be slightly
Grade 3	3.5.2	different, even if what is being measured stays the same.
		Explain that one way to make sense of something is to think of how it relates to
Grade 3	3.5.5	something more familiar.
		Investigate how and describe that when parts are put together, they can do things
Grade 3	3.6.1	that they could not do by themselves.
		Investigate how and describe that something may not work if some of its parts are
Grade 3	3.6.2	missing.
Crede 1		Investigate, such as by using microscopes, to see that living things are made
Grade 4	4.4.1	mostly of cells.
Crada 1	4.4.2	Investigate, observe, and describe that insects and various other organisms depend on dead plant and animal material for food.
Grade 4	4.4.2	Observe and describe that organisms interact with one another in various ways,
Grade 4	4.4.3	such as providing food, pollination and seed dispersal.
	4.4.5	Observe and describe that some source of energy is needed for all organisms to
Grade 4	4.4.4	stay alive and grow.
		Observe and explain that most plants produce far more seeds than those that
Grade 4	4.4.5	actually grow into new plants.
		Explain how in all environments, organisms are growing, dying, and decaying, and
Grade 4	4.4.6	new organisms are being produced by the old ones.
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		Explain that food provides energy and materials for growth and repair of body parts.
		Recognize that vitamins and minerals, present in small amounts in foods, are
		essential to keep everythng working well. Further understand that as people grow
Grade 4	4.4.9	up, the amounts and kinds of food and exercise needed by the body may change.
		Explain that if germs are able to get inside the body, they may keep it from working
		properly. Understand that for defense against germs, the human body has tears,
		saliva, skin, some blood cells, and stomach secretions. Also note that a healthy
		body can fight most germs that invade it. Recognize, however, that there are some
Grade 4	4.4.10	germs that interfere with the body's defenses.
		Explain that there are some diseases that human beings can only catch once.
		Explain that there are many diseases that can be prevented by vaccinations, so
Grade 4	4.4.11	that people do not catch them even once.
		Use technology, such as calculators or spreadsheets, in determining area and
		volume from linear dimensions. Find area, volume, mass, time, and cost, and find
Grade 5	5.2.5	the difference between two quantities of anything.
		Investigate that when liquid water disappears it turns into a gas (vapor) mixed into
Crada F	521	the air and can reappear as a liquid when cooled or as a solid if cooled below the
Grade 5 Grade 5	5.3.4 5.3.5	freezing point of water. Observe and explain that clouds and fog are made of tiny droplets of water.
Giaue 3	0.0.0	Demonstrate that things on or near the Earth are pulled toward it by the Earth's
Grade 5	5.3.6	gravity.
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Grade	Indicator	Standard Indicator
		Investigate, observe, and describe that heating and cooling cause changes in the
		properties of materials, such as water turning into steam by boiling and water
		turning into ice by freezing. Notice that many kinds of changes occur faster at
Grade 5	5.3.8	higher temperatures.
		Investigate, observe, and describe that when warmer things are put with cooler
		ones, the warm ones lose heat and the cool ones gain it until they are all at the
		same temperature. Demonstrate that a warmer object can warm a cooler one by
Grade 5	5.3.9	contact or at a distance.
		Investigate that some materials conduct heat much better than others, and poor
Grade 5	5.3.10	conductors can reduce heat loss.
		Explain that objects move at different rates, with some moving too quickly for
Grade 5	5.3.12	people to see them.
Grade 5	5.3.13	Demonstrate that the Earth's gravity pulls any object toward it without touching it.
		Explain that in any particular environment, some kinds of plants and animals
Grade 5	5.4.4	survive well, some do not survive as well, and some cannot survive at all.
		Explain that living things, such as plants and animals, differ in their characteristics,
		and that sometimes these differences can give members of these groups (plants
Grade 5	5.4.7	and animals) an advantage in surviving and reproducing.
Grade 5	5.5.1	Make precise and varied measurements and specify the appropriate units.
Grade 5	5.5.3	Classify objects in terms of simple figures and solids.
		Compare shapes in terms of concepts, such as parallel and perpendicular,
Grade 5	5.5.4	congruence and symmetry.
		Demonstrate that areas of irregular shapes can be found by dividing them into
Grade 5	5.5.5	squares and triangles.
		Describe and use drawings to show shapes and compare locations of things very
Grade 5	5.5.6	different in size.