		Number of Times PI Tested			
Standard/ Unit	Performance Indicator	2006	2007	2008	Totals
6 (skill)	Key Idea 2 Models	44	35	43	122
1 (skill)	S3.2 Interpret organized data	12	15	13	40
1 (skill)	S2.3 Carry out their research proposals	9	9	9	27
1 (skill)	S3.1 Design charts, tables and graphs	8	9	6	23
1(skill)	S2.1 Use conventional techniques	8	6	7	21
6 (skill)	Key Idea 5 Patterns of change	6	6	7	19
1 (skill)	M2 Deductive and Inductive Reasoning	8	5	4	17
1 (skill)	S2.2 Develop, present and defend normal research	4	5	5	14
1 (skill)	S1.2 Construct Explanations	4	4	5	13
1 (skill)	S1.3 Represent, present and defend the proposed explanations	4	5	4	13
1 (skill)	S1.1 Formulate Questions	3	2	7	12
1 (skill)	M1 Abstraction and Symbolic Representation	2	4	2	8
LE	5.1e Herbivores obtain energy from plants. Carnivores obtain energy from animals. Omnivores obtain energy from both plants and animals.	5	1	2	8
LE	2.2c The probability of traits being expressed can be determined using models of genetic inheritance.	3	2	2	7
LE	6.2a Photosynthesis is carried on by green plants and other organisms containing chlorophyll. In this process, the Sun's energy is converted into and stored as chemical energy in the form of a sugar.	3	1	2	6

		Number of Times PI Tested			
Standard/					
Unit	Performance Indicator	2006	2007	2008	Totals
	5.1d The methods for obtaining nutrients vary				
	among organisms. Producers, such as green				
LE	plants, use light energy to make their food.	3	1	1	5
	7.1c In all environments, organisms interact				
LE	with one another in many ways.	3		2	5
	7.2d Since the Industrial Revolution, human				
	activities have resulted in major pollution of				
LE	air, water, and soil.		2	3	5
	1.1e Most objects in the solar system have a				
PS	regular and predictable motion.	1	2	2	5
	1.1h The apparent motions of the Sun, Moon,				
	planets, and stars across the sky can be				
PS	explained by Earth's rotation and revolution.	2	2	1	5
	1.1i The tilt of Earth's axis of rotation and the				
	revolution of Earth around the Sun cause				
PS	seasons on Earth.		3	2	5
PS	2.1e Rocks are composed of minerals.	1	3	1	5
	3.1b Solubility can be affected by the nature of				
	the solute and solvent, temperature, and				
PS	pressure.		1	4	5
LE	1.1a Living things are composed of cells.	3		1	4
	1.1c Most cells have cell membranes, genetic				
	material, and cytoplasm. Some cells have a				
LE	cell wall and/or chloroplasts.		2	2	4
	6.1a Energy flows through ecosystems in one				
	direction, usually from the Sun, through				
	producers to consumers and then to				
LE	decomposers.	2	1	1	4
	6.2b The major source of atmospheric oxygen				
LE	is photosynthesis.	1	2	1	4

		Number of Times PI Tested			
Standard/					
Unit	Performance Indicator	2006	2007	2008	Totals
	6.2c Green plants are the producers of food				
	which is used directly or indirectly by				
LE	consumers.		2	2	4
	2.2g Rocks are classified according to their				
PS	method of formation.	2	1	1	4
PS	3.1f A solid has definite shape and volume.	1	1	2	4
	3.1g Characteristic properties can be used to				
	identify different materials, and separate a				
PS	mixture of substances into its components.	1	3		4
	3.1i Buoyancy is determined by comparative				
PS	densities.	1	2	1	4
	4.1b Fossil fuels contain stored solar energy				
PS	and are considered nonrenewable resources.		2	2	4
	4.4g Without direct contact, a magnet attracts				
	certain materials and either attracts or repels				
PS	other magnets.	1	1	2	4
	S1.4 Seek to clarify, assess critically and				
1	reconcile with their own thinking	1	1	1	3
6	Key Idea 6 Optimization		1	2	3
	1.1b The way in which cells function is similar				
LE	in all living things.	2	1		3
	1.1h Living things are classified by shared				
	characteristics on the cellular and organism				
LE	level.	1	1	1	3
	1.2g Locomotion, necessary to escape				
	danger, obtain food and shelter, and				
LE	reproduce, is accomplished by the interaction	1	1	1	3
	2.1a Hereditary information is contained in				
LE	genes.	1	1	1	3

		Nu	mber of Ti	imes PI Te	sted
Standard/					
Unit	Performance Indicator	2006	2007	2008	Totals
	3.1c Human activities such as selective				
	breeding and advances in genetic engineering				
LE	may affect the variations of species.	1	1	1	3
	may allest the variations of species.				
	3.2d Although the time needed for change in a				
	species is usually great, some species of				
	insects and bacteria have undergone				
LE	significant change in just a few years.	1	2		3
	4.1b There are many methods of asexual				
	reproduction, including division of a cell into				
	two cells, or separation of part of an animal or				
l	plant from the parent, resulting in the growth		_		
LE	of another individual.	1	2		3
	4.20 The male say call is the enerm. The				
	4.2a The male sex cell is the sperm. The female sex cell is the egg. The fertilization of				
LE	an egg by a sperm results in a fertilized egg.	1	1	1	3
	4.2b In sexual reproduction, sperm and egg		ı	'	3
	each carry one-half of the genetic information				
LE	for the new individual.	1	1	1	3
	ioi dio non marriada.				
	4.3d Patterns of development vary among				
	animals. In some species the young resemble				
LE	the adult, while in others they do not.	1	1	1	3
	7.1b Given adequate resources and no				
	disease or predators, populations (including				
LE	humans) increase.	1	1	1	3
	1.1d Gravity is the force that keeps planets in				
	orbit around the Sun and the Moon in orbit				
PS	around the Earth.	1	1	1	3
	1.1f The latitude/longitude coordinate system				
DC.	and our system of time are based on celestial		•		
PS	observations.		2	1	3

		Nu	mber of T	imes PI Te	sted
Standard/					
Unit	Performance Indicator	2006	2007	2008	Totals
	1.1g Moons are seen by reflected light. Our				
PS	Moon orbits Earth, while Earth orbits the Sun.	1	1	1	3
	2.1f Fossils are usually found in sedimentary				
PS	rocks.	2		1	3
	2.2q Hazardous weather conditions include				
	thunderstorms, tornadoes, hurricanes, ice				
PS	storms, and blizzards.	2		1	3
	3.2a During a physical change a substance				
	keeps its chemical composition and				
PS	properties.	1	1	1	3
	3.2b Mixtures are physical combinations of				
	materials and can be separated by physical				
PS	means.	1	1	1	3
	3.2c During a chemical change, substances				
	react in characteristic ways to form new				
	substances with different physical and				
PS	chemical properties.	1	2		3
	4.2c During a phase change, heat energy is				
PS	absorbed or released.		2	1	3
	4.2d Most substances expand when heated				
PS	and contract when cooled.	1	1	1	3
	4.2e Temperature affects the solubility of				
PS	some substances in water.	1	2		3
	4.4a Different forms of electromagnetic energy				
PS	have different wavelengths.	1		2	3
1	S3.3 Modify their personal understanding	1	1		2
7	Key Idea 1 Connections	1	1		2
	1.1e Cells are organized for more effective				
LE	functioning in multicellular organisms.		1	1	2
	1.1f Many plants have roots, stems, leaves,				
LE	and reproductive structures.	1		1	2
	1.2d During respiration, cells use oxygen to				
LE	release the energy stored in food.		1	1	2

		Nu	mber of T	imes PI Te	sted
Standard/					
Unit	Performance Indicator	2006	2007	2008	Totals
	2.1d In asexual reproduction, all the genes				
LE	come from a single parent.	1	1		2
	2.1e In sexual reproduction typically half of the				
LE	genes come from each parent.		1	1	2
	2.2a In all organisms, genetic traits are				
LE	passed on from generation to generation.	2			2
	2.2b Some genes are dominant and some are				
LE	recessive.	2			2
	3.2b Extinction of a species occurs when the				
	environment changes and the adaptive				
	characteristics of a species are insufficient to				
LE	permit its survival.	2			2
	4.1c Methods of sexual reproduction depend				
LE	upon the species.		1	1	2
	4.3a Multicellular organisms exhibit complex				
	changes in development, which begin after				
LE	fertilization.	1		1	2
	4.4a In multicellular organisms, cell division is				
	responsible for growth, maintenance, and				
LE	repair.		1	1	2
	5.1c All organisms require energy to survive.				
	The amount of energy needed and the method				
	for obtaining this energy vary among cells.				
	Some cells use oxygen to release the energy				
LE	stored in food.	2			2
LE	5.2d Energy in foods is measured in Calories.		1	1	2
	6.1b Food webs identify feeding relationships				
	among producers, consumers, and				
LE	decomposers in an ecosystem.	1	1		2
	7.1a A population consists of all individuals of				
	a species that are found together at a given				
LE	place and time.	2			2

		Nu	mber of T	imes PI Te	sted
Standard/					
Unit	Performance Indicator	2006	2007	2008	Totals
	7.2b The environment may be altered through				
l	the activities of organisms. Alterations are		_		_
LE	sometimes abrupt.	1	1		2
	2.1a Nearly all the atmosphere is confined to a				
PS	thin shell surrounding Earth.	1	1		2
	2.1g The dynamic processes that wear away				
	Earth's surface include weathering and				
PS	erosion.	1	1		2
PS	2.2a The interior of Earth is hot.			2	2
	2.2b Analysis of earthquake wave data				
	(vibrational disturbances) leads to the				
PS	conclusion that there are layers within Earth.	1		1	2
	2.2e The Theory of Plate Tectonics explains				
	how the 'solid' lithosphere consists of a series				
	of plates that 'float' on the partially molten				
PS	section of the mantle.	1		1	2
	2.2f Plates may collide, move apart, or slide				
PS	past one another.		1	1	2
	2.2m Most local weather condition changes				
PS	are caused by movement of air masses.		1	1	2
	2.2r Substances enter the atmosphere				
PS	naturally and from human activity.	1	1		2
	3.1a Substances have characteristic				
PS	properties.	1		1	2
	4.2b Heat can be transferred through matter				
	by the collisions of atoms and/or molecules				
PS	(conduction) or through space (radiation).		1	1	2
	4.4b Light passes through some materials,		_		_
PS	sometimes refracting in the process.		1	1	2

		Number of Times PI Tested			
Standard/ Unit	Performance Indicator	2006	2007	2008	Totals
	5.1c An object's motion is the result of the				
	combined effect of all forces acting on the				
PS	object.		1	1	2
	5.1d Force is directly related to an object's				
PS	mass and acceleration.	1		1	2
	5.1e For every action there is an equal and				
PS	opposite reaction.	1		1	2
PS	5.2d Friction is a force that opposes motion.	1	1		2
	5.2g Simple machines include a lever, a				
	pulley, a wheel and axle, and an inclined				
PS	plane.		1	1	2
	4.3c Various body structures and functions				
	change as an organism goes through its life				
	cycle.		1	1	2
1	T1.1 - T1.5 Engineering Design	1			1
2	Key Idea 1 Systems thinking		1		1
	Key Idea 3 Information technology can have				
2	positive and negative impacts on society	1			1
2 6	Key Idea 3 Magnitude and scale		1		1
	1.1d Some organisms are single cells; others,				
LE	including humans, are multicellular.			1	1
	1.2a Each system is composed of organs and				
	tissues which perform specific functions and				
LE	interact with each other		1		1
	1.2e The excretory system functions in the				
	disposal of dissolved waste molecules, the				
	elimination of liquid and gaseous wastes, and				
LE	the removal of excess heat energy.		1		1
	1 Of The circulatory eventors may accept the				
	1.2f The circulatory system moves substances to and from cells, where they are needed or				
LE	produced, responding to changing demands.		1		1
ᆫᆫ	produced, responding to changing demands.		I		l l

	Number of Times PI Tested				sted
Standard/					
Unit	Performance Indicator	2006	2007	2008	Totals
	1.2h The nervous and endocrine systems				
	interact to control and coordinate the body's				
	responses to changes in the environment, and				
LE	to regulate growth, development, and reproduction.			1	1
<u>LC</u>	reproduction.			ı	ı
	1.2i The male and female reproductive				
	systems are responsible for producing sex				
LE	cells necessary for the production of offspring.			1	1
	3.1a The processes of sexual reproduction				
	and mutation have given rise to a variety of				
LE	traits within a species.			1	1
	3.2a In all environments, organisms with				
	similar needs may compete with one another				
LE	for resources.	1			1
	3.2c Many thousands of layers of sedimentary				
	rock provide evidence for the long history of				
	Earth and for the long history of changing lifeforms whose remains are found in the				
LE	rocks.	1			1
<u> </u>	TOCKS.	ı			
LE	4.1a Some organisms reproduce asexually.			1	1
	4.3b In humans, the fertilized egg grows into			· ·	
	tissue which develops into organs and organ				
LE	systems before birth.	1			1
	4.3e Patterns of development vary among				
	plants. In seed-bearing plants, seeds contain				
LE	stored food for early development.			1	1
	4.3f As an individual organism ages, various				,
LE	body structures and functions change.		1		1

		Nu	mber of T	imes PI Te	sted
Standard/					
Unit	Performance Indicator	2006	2007	2008	Totals
	5.1a Animals and plants have a great variety				
	of body plans and internal structures that				
	contribute to their ability to maintain a				
LE	balanced condition.		1		1
	5.1f Regulation of an organism's internal				
	environment involves sensing the internal				
	environment and changing physiological				
	activities to keep conditions within the range				
LE	required for survival.		1		1
	5.2b Foods contain a variety of substances,				
l	which include carbohydrates, fats, vitamins,				_
LE	proteins, minerals, and water.			1	1
	6.1c Matter is transferred from one organism				
l	to another and between organisms and their				
LE	physical environment.			1	1
	7.2a In ecosystems, balance is the result of				
l. <u>_</u>	interactions between community members				
LE	and their environment.	1			1
	1.1c The Sun and the planets that revolve				
	around it are the major bodies in the solar				
PS	system.		1		1
	2.1d The majority of the lithosphere is covered				
D0	by a relatively thin layer of water called the			_	
PS	hydrosphere.			1	1
D0	2.1h The process of weathering breaks down	4			
PS DC	rocks to form sediment.	11			1
PS	2.1i Erosion is the transport of sediment.	1			1
	2 2d Continents fitting together like 2027				
	2.2d Continents fitting together like puzzle				
PS	parts and fossil correlations provided initial			1	1
r 3	evidence that continents were once together.			l I	ı

		Nu	mber of T	imes PI Te	sted
Standard/					
Unit	Performance Indicator	2006	2007	2008	Totals
	2.2h The rock cycle model shows how types				
	of rock or rock material may be transformed				
PS	from one type of rock to another.			1	1
	2.2i Weather describes the conditions of the				
20	atmosphere at a given location for a short	_			
PS	period of time.	1			1
	2.2n The movement of air masses is				
	determined by prevailing winds and upper air				
PS	currents.	1			1
	2.20 Fronts are boundaries between air				
PS	masses.	1			1
	2.2p High-pressure systems generally bring	_			
PS	fair weather.	1			1
	2.1a The metion of particles helps to evaloin				
	3.1c The motion of particles helps to explain				
PS	the phases (states) of matter as well as			1	4
P3	changes from one phase to another. 3.1e A liquid has definite volume, but takes			1	1
PS		4			4
P 5	the shape of a container.	1			1
	3.1h Density can be described as the amount				
PS	of matter that is in a given amount of space.	1			1 1
F3	3.2d Substances are often placed in	1			
PS	categories if they react in similar ways.			1	1 1
- 3	categories if they react in similar ways.			1	•
	3.2e The Law of Conservation of Mass states				
	that during an ordinary chemical reaction				
PS	matter cannot be created or destroyed.		1		1 1
PS	3.3a All matter is made up of atoms.		ı	1	1
-	3.3b Atoms and molecules are perpetually in			I I	<u> </u>
PS	motion.			1	1 1
<u> </u>	Intotion.			<u>'</u>	'

		Number of Times PI Tested			
Standard/					
Unit	Performance Indicator	2006	2007	2008	Totals
	3.3c Atoms may join together in well-defined				
	molecules or may be arranged in regular				
PS	geometric patterns.	1			1
	4.1d Different forms of energy include heat,				
	light, electrical, mechanical, sound, nuclear,				
PS	and chemical.	1			1
	4.1e Energy can be considered to be either				
	kinetic energy, which is the energy of motion,				
	or potential energy, which depends on relative				
PS	position.			1	1
	4.4c Vibrations in materials set up wave-like				
	disturbances that spread away from the				
PS	source.	1			1
	4.4e Electrical circuits provide a means of				
PS	transferring electrical energy.			1	1
	4.4f Without touching them, material that has				
	been electrically charged attracts uncharged				
	material, and may either attract or repel other				
PS	charged material.		1		1
	4.5a Energy cannot be created or destroyed,				_
PS	but only changed from one form into another.		1		1
	5.2a Every object exerts gravitational force on				
PS	every other object.			1	1
50	5.2e A machine can be made more efficient by	4			
PS	reducing friction.	1			1
	5.2f Machines can change the direction or				
50	amount of force, or the distance or speed of				
PS (al:ii)7	force required to do work.			1	1
(skill)7	Key Idea 2 Strategies				0
1 (skill)	Key Idea 1 Information Technology				0
1 (skill)	M3 Critical Thinking Skills				0
0 (51:11)	Key Idea 2 Knowledge of the impacts and				
2 (skill)	limitations of information systems				0

		Number of Times PI Tested			
Standard/					
Unit	Performance Indicator	2006	2007	2008	Totals
6 (skill)	Key Idea 4 Equilibrium and stability				0
	1.1g Multicellular animals often have similar				
	organs and specialized systems for carrying				
LE	out major life activities.				0
	1.2b Tissues, organs, and organ systems help				
	to provide all cells with nutrients, oxygen, and				
LE	waste removal.				0
	1.2c The digestive system consists of organs				
_	that are responsible for the mechanical and				
LE	chemical breakdown of food.				0
l	1.2j Disease breaks down the structures or				_
LE	functions of an organism.				0
l	2.1b Each gene carries a single unit of				_
LE	information.				0
	0.4. Fach because will accept the accept of all				
. –	2.1c Each human cell contains a copy of all				
LE	the genes needed to produce a human being.				0
	3.1b Changes in environmental conditions can				
l. <u>–</u>	affect the survival of individual organisms with				
LE	a particular trait.				0
l. <u>–</u>	4.1d Fertilization and/or development in				
LE	organisms may be internal or external.				0
	4.4h In and type of call division, chromosomes				
	4.4b In one type of cell division, chromosomes are duplicated and then separated into two				
	· ·				
-	identical and complete sets to be passed to				
LE	each of the two resulting cells.				0
	4.4c Another type of cell division accounts for				
-	the production of egg and sperm cells in				
LE	sexually reproducing organisms. 4.4d Cancers are a result of abnormal cell				0
-					
LE	division.				0

			Number of Times PI Tested			
Standard/						
Unit	Performance Indicator	2006	2007	2008	Totals	
	5.1b An organism's overall body plan and its					
	environment determine the way that the					
LE	organism carries out the life processes.				0	
	5.1g The survival of an organism depends on					
	its ability to sense and respond to its external					
LE	environment.				0	
	5.2a Food provides molecules that serve as					
LE	fuel and building material for all organisms.				0	
	5.2c Metabolism is the sum of all chemical					
LE	reactions in an organism.				0	
	5.2e In order to maintain a balanced state, all					
	organisms have a minimum daily intake of					
	each type of nutrient based on species, size,					
LE	age, sex, activity, etc.				0	
	5.2f Contraction of infectious disease, and					
	personal behaviors such as use of toxic					
	substances and some dietary habits, may					
LE	interfere with one's dynamic equilibrium.				0	
	7.1e The environment may contain dangerous					
	levels of substances (pollutants) that are					
LE	harmful to organisms.				0	
	7.2c Overpopulation by any species impacts					
	the environment due to the increased use of					
LE	resources.				0	
	1.1b Other stars are like the Sun but are so far					
PS	away that they look like points of light.				0	
	1.1a Earth's Sun is an average-sized star. The					
	Sun is more than a million times greater in					
PS	volume than Earth.				#REF!	
	1.1j The shape of Earth, the other planets, and					
PS	stars is nearly spherical.				0	
	2.1b As altitude increases, air pressure					
PS	decreases.				0	

		Number of Times PI Tested			
Standard/					
Unit	Performance Indicator	2006	2007	2008	Totals
	2.1c The rock at Earth's surface forms a				
	nearly continuous shell around Earth called				
PS	the lithosphere.				0
	2.2c Folded, tilted, faulted, and displaced rock				
PS	layers suggest past crustal movement.				0
	2.2j Climate is the characteristic weather that				
50	prevails from season to season and year to				
PS	year.				0
DC	2.2k The uneven heating of Earth's surface is the cause of weather.				
PS	the cause of weather.				0
	2.2l Air masses form when air remains nearly				
	stationary over a large section of Earth's				
	surface and takes on the conditions of				
PS	temperature and humidity from that location.				0
	3.1d Gases have neither a determined shape				
PS	nor a definite volume.				0
	3.3d Interactions among atoms and/or				
PS	molecules result in chemical reactions.				0
	3.3e The atoms of any one element are				
PS	different from the atoms of other elements.				0
PS	3.3f There are more than 100 elements.				0
	3.3g The periodic table is one useful model for				
PS	classifying elements.				0
	4.1a The Sun is a major source of energy for				
PS	Earth.				0
	4.1c Most activities in everyday life involve				
	one form of energy being transformed into				
PS	another.				0
	4.2a Heat moves in predictable ways, flowing				
	from warmer objects to cooler ones, until both				
PS	reach the same temperature.				0

		Number of Times PI Tested			
Standard/ Unit	Performance Indicator	2006	2007	2008	Totals
PS	4.3a In chemical reactions, energy is transferred into or out of a system.				0
PS	4.4d Electrical energy can be produced from a variety of energy sources and can be transformed into almost any other form of energy.				0
	4.5b Energy can change from one form to another, although in the process some energy is always converted to heat. Some systems transform energy with less loss of heat than				
PS	others.				0
PS	5.1a The motion of an object is always judged with respect to some other object or point.				0
PS	5.1b The motion of an object can be described by its position, direction of motion, and speed.				0
PS	5.2b Electric currents and magnets can exert a force on each other.				0
PS	5.2c Machines transfer mechanical energy from one object to another.			_	0