Name: Period:

CFA Results	Standard	Evidence of Mastery
Blue = Mastered Red = Not Mastered	If you got a question wrong, determine the standard that was assessed on that question. Color it RED under the appropriate color if you got it WRONG. If you got EVERY question RIGHT that assessed that standard, color it BLUE. Even one question wrong requires the T1, T2, or T3 block to be colored red.	Here, you write additional evidence that explains how you know you have mastered the SPI. You do NOT fill this out until you have color-coded the standard blue.

Embedded Inquiry *What tools, skills, knowledge, and dispositions are needed to conduct scientific inquiry?*		
	SPI 0807.Inq.1 Design a simple experimental procedure with an identified control and appropriate variables.	Example I am able to design an experiment. I know what a control is. I can identify dependent and independent variables.
T1	**SPI 0807.Inq.2** Select tools and procedures needed to conduct a moderately complex experiment.	
T2		
T3		
T1	**SPI 0807.Inq.3** Interpret and translate data into a table, graph, or diagram.	
T2		
T3		
T1	**SPI0807.Inq.4**Drawaconclusionthat establishes a cause and effect relationship supported by evidence.	
T2		
T3		
T1	**SPI 0807.Inq.5** Identify a faulty interpretation of data that is due to bias or experimental error.	
T2		
T3		

Name: Period:

Embedded Technology & Engineering

How do science concepts, engineering skills, and applications of technology improve the quality of life?

T1	**SPI 0807.T/E.1** Identify the tools and procedures needed to test the design features of a prototype.	
T2		
T3		
T1	**SPI 0807.T/E.2** Evaluate a protocol to determine if the engineering design process was successfully applied.	
T2		
T3		
T1	**SPI 0807.T/E.3** Distinguish between the intended benefits and the unintended consequences of a new technology.	
T2		
T3		
T1	**SPI 0807.T/E.4** Differentiate between adaptive and assistive engineered products (e.g., food, biofuels, medicines, integrated pest management).	
T2		
T3		

Name: Period:

Biodiversity and Change

How does natural selection explain how organisms have changed over time?

T1	**SPI 0807.5.1** Use a simple classification key to identify an unknown organism.	
T2		
T3		
T1	**SPI 0807.5.2** Analyze structural, behavioral, and physiological adaptations to predict which populations are likely to survive in a particular environment.	
T2		
T3		
T1	**SPI 0807.5.3** Analyze data on levels of variation within a population to make predictions about survival under particular environmental conditions.	
T2		
T3		
T1	**SPI 0807.5.4** Identify several reasons for the importance of maintaining the earth's biodiversity.	
T2		
T3		
T1	**SPI 0807.5.5** Compare fossils found in sedimentary rock to determine their relative age.	
T2		
T3		

Name: Period:

Physical Science Part 1

How does the structure of matter influence its physical and chemical behavior?

T1	**SPI 0807.9.1** Recognize that all matter consists of atoms.	
T2		
T3		
T1	**SPI 0807.9.2** Identify the common outcome of all chemical changes.	
T2		
T3		
T1	**SPI 0807.9.3** Classify common substances as elements or compounds based on their symbols or formulas.	
T2		
T3		
T1	**SPI 0807.9.4** Differentiate between a mixture and a compound.	
T2		
T3		
T1	**SPI 0807.9.5** Describe the chemical makeup of the atmosphere.	
T2		
T3		
T1	**SPI 0807.9.6** Compare the particle arrangement and type of particle motion associated with different states of matter.	
T2		
T3		
T1	**SPI 0807.9.7** Apply an equation to determine the density of an object based on its mass and volume.	
T2		
T3		

Name: Period:

Physical Science Part 2

How does the structure of matter influence its physical and chemical behavior?

T1	**SPI 0807.9.8** Interpret the results of an investigation to determine whether a physical or chemical change has occurred.	
T2		
T3		
T1	**SPI 0807.9.9** Use the periodic table to determine the properties of an element.	
T2		
T3		
T1	**SPI 0807.9.10** Identify the reactants and products of a chemical reaction.	
T2		
T3		
T1	**SPI 0807.9.11** Recognize that in a chemical reaction the mass of the reactants is equal to the mass of the products (Law of Conservation of Mass).	
T2		
T3		
T1	**SPI 0807.9.12** Identify the basic properties of acids and bases.	
T2		
T3		

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Forces in Nature

What are the scientific principles that explain gravity and electromagnetism?

T1	**SPI 0807.12.1** Recognize that electricity can be produced using a magnet and wire coil.	
T2		
T3		
T1	**SPI 0807.12.2** Describe the basic principles of an electromagnet.	
T2		
T3		
T1	**SPI 0807.12.3** Distinguish among the Earth's magnetic field, a magnet, and the fields that surround a magnet and an electromagnet.	
T2		
T3		
T1	**SPI 0807.12.4** Distinguish between mass and weight using appropriate measuring instruments and units.	
T2		
T3		
T1	**SPI 0807.12.5** Determine the relationship among the mass of objects, the distance between these objects, and the amount of gravitational attraction.	
T2		
T3		
T1	**SPI 0807.12.6** Illustrate how gravity controls the motion of objects in the solar system.	
T2		
T3		