

FSI 8th Grade Science Milestones EOG Prep Proficiency Sheet

Course	Topic	Pretest Grade	Post test Grade
Course 1 – Structure & Properties of Matter	<i>a. Elements vs. Compounds & Heterogeneous vs. Homogeneous Mixtures</i>		
	<i>b. States of Matter Particle Movement</i>		
	<i>c. Chemical vs. Physical Properties & Changes of Matter</i>		
	<i>d. Periodic Table & Atomic Structure</i>		
	<i>e. Law of Conservation of Mass & Matter</i>		
Course 2 – Interactions of Energy & Matter	<i>a. Energy Transformations</i>		
	<i>b. Heat Transfer & Molecular Motion</i>		
	<i>c. Potential & Kinetic Energy</i>		
Course 3 – Motion	<i>a. Speed & Distance</i>		
	<i>b. Velocity & Acceleration</i>		
	<i>c. Newton’s Laws Balanced & Unbalanced Forces</i>		
Course 4 - Waves	<i>a. Electromagnetic vs. Mechanical Waves</i>		
	<i>b. The Electromagnetic Spectrum</i>		
	<i>c. Practical Applications of the Electromagnetic Spectrum</i>		
	<i>d. Properties of Waves</i>		
	<i>e. Wave Behavior</i>		
	<i>f. Medium & Wave Speed</i>		
	<i>g. Light & Lenses</i>		
Course 5 – Gravitational, Electric, & Magnetic Forces	<i>a. Magnets & Magnetic Fields</i>		
	<i>b. Gravity & Gravitational Fiels</i>		
	<i>c. Electricity & Electric Fields</i>		
	<i>d. Static Electricity (Conduction, Induction, Friction)</i>		
	<i>e. Electromagnets</i>		