

8th Grade Science ~ Camden County Schools 2017-2018

(Adapted from the Georgia Department of Education Frameworks 05.21.14)

1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Unit 1: Matter	Unit 2 : Energy Including electricity and magnetism	Unit 3: Forces & Motion	Unit 4: Waves
Mastery Assessment 1 October 26	Mastery Assessment 2 December 14	Mastery Assessment 3 February 8	Mastery Assessment 4 March 28
- Structure and Function - Energy and Matter	- Systems and Systems Models - Scale, proportion, and quantity - Energy and Matter	- Cause and Effect - Structure and Function - Energy and Matter	-Cause and Effect -Structure and Function -Energy and Matter
S8P1a,b,c,d,e,f S8P2c,d	88P1e, 88P2a,b,c,d S8P5c	S8P1e, S8P2a,b,c, S8P3a,b,c, S8P5a,b,c	S8P4a,b,c,d,e,f,g
Core Ideas			
Structure and properties of matter Mixtures and solutions Elements and compounds Matter (structure and composition) Thermal energy Energy Transformation States of matter Chemical and physical properties and changes Conservation of matter Energy Kinetic and potential energy Heat transfer (conduction, radiation, and convection) Electric and magnetic forces (electromagnets)		Forces (friction, gravitational, electrical, and magnetic) Force fields Conductors and insulators Force and motion Speed and acceleration Speed and distance Newton's Laws of Motion Balance and unbalanced forces Waves properties (frequency, amplitude, wavelength, and energy) Energy (electromagnetic spectrum) Light and sound Wave propagation (reflection, refraction, absorption, diffraction, and transmission) Lenses characteristics	