

North Carolina Science Standard Course of Study & The GLOBE Program, Grades 9-12

Goal	Physical Science	Chemistry	Physics	Earth Science	Biology
Goal 1	The learner will construct an understanding of mechanics.	The learner will build an understanding of the structure and properties of matter.	The learner will build an understanding of linear motion.	The learner will build an understanding of lithospheric materials, processes, changes, and uses with concerns for good stewardship.	The learner will develop an understanding of the physical, chemical and cellular basis of life.
GLOBE		Hydrology		Soils	
Goal 2	The learner will build an understanding of thermal energy.	The learner will build an understanding of regularities in chemistry.	The learner will build an understanding of two-dimensional motion.	The learner will develop an understanding of tectonic processes and their	The learner will develop an understanding of the continuity of life and the

				human impacts.	changes of organisms over time.
GLOBE		Hydrology		Soils	
Goal 3	The learner will construct an understanding of electricity and magnetism.	The learner will build an understanding of energy changes in chemistry.	The learner will develop an understanding of forces.	The learner will build an understanding of the origin and evolution of the earth system.	The learner will develop an understanding of the unity and diversity of life.
GLOBE				Soils	Biology/land cover
Goal 4	The learner will develop an understanding of wave motion and the wave nature of sound and light.	The learner will build an understanding of equilibrium and kinetics.	The learner will develop an understanding of Newton's Laws of Motion.	The learner will build an understanding of the hydrosphere and its interactions and influences on the lithosphere, the atmosphere,	The learner will develop an understanding of ecological relationships among organisms.

				and environmental quality.	
GLOBE				Hydrology, Soils	Biology/land cover
Goal 5	The learner will build an understanding of the structure and properties of matter.		The learner will develop an understanding of the nature of mechanical energy.	The learner will build an understanding of the dynamics and composition of the atmosphere and its local and global processes influencing climate and air quality.	Students will develop an understanding of the behavior of organisms, resulting from a combination of heredity and environment.
GLOBE	Hydrology			Atmosphere	
Goal 6	The learner will build an understanding of regularities in chemistry.		The learner will build an understanding of impulse and momentum.	The learner will acquire an understanding of the earth in the solar system and	

				its position in the universe.	
GLOBE				Meteorology	
Goal 7			The learner will develop an understanding of wave motion and the wave nature of sound and light.	The learner will build an understanding of alternative choices facing human societies in their stewardship of the earth.	
GLOBE				All	
Goal 8			The learner will build an understanding of basic elementary principles of thermodynamics.		
GLOBE					
Goal 9			The learner will build an		

			understanding of static electricity.		
GLOBE					
Goal 10			The learner will build an understanding of direct current electrical circuits.		