

HIGH SCHOOL SCIENCE SKILLS

CAPE MAY COUNTY NEW JERSEY

(2010)

OBJECTIVE CODE			UNIT CONTENT & PACING	UNIT ESSENTIAL QUESTIONS	UNIT ENDURING UNDERSTANDING WHAT STUDENTS SHOULD KNOW AND BE ABLE TO DO	DIFFERENTIATED ACTIVITIES Tier 1, 2, 3	BENCHMARK ASSESSMENTS
Grade	Standard	Strand					
9	5.1	12.A.1	Understanding Scientific Explanation		5.1.12.A.1: Refine interrelationships among concepts and patterns of evidence found in different central scientific explanations.		
9		12.A.2			5.1.12.A.2: Develop and use mathematical, physical, and computational tools to build evidence-based models and to pose theories.		
9		12.A.3			5.1.12.A.3 Use scientific principles and theories to build and refine standards for data collection, posing controls, and presenting evidence.		
9		12.B.1			5.1.12.B.1: Design investigations, collect evidence, analyze data, and evaluate evidence to determine measures of central tendencies, causal/correlational relationships, and anomalous data.		
9		12.B.2			5.1.12.B.2: Build, refine, and represent evidence-based models using mathematical, physical, and computational tools.		
9		12.B.3			5.1.12.B.3: Revise predictions and explanations using evidence, and connect explanations/arguments to established scientific knowledge, models, and theories.		
9		12.B.4			5.1.12.B.4: Develop quality controls to examine data sets and to examine evidence as a means of generating and reviewing explanations.		

9		12.C.1			5.1.12.C.1: Reflect on and revise understandings as new evidence emerges.		
9		12.C.2			5.1.12.C.2: Use data representations and new models to revise predictions and explanations		
9		12.C.3			5.1.12.C.3: Consider alternative theories to interpret and evaluate evidence-based arguments.		
9		12.D.1			5.1.12.D.1: Engage in multiple forms of discussion in order to process, make sense of, and learn from others' ideas, observations, and experiences.		
9		12.D.2			5.1.12.D.2: Represent ideas using literal representations, such as graphs, tables, journals, concept maps, and diagrams		
9		12.D.3			5.1.12.D.3: Demonstrate how to use scientific tools and instruments and knowledge of how to handle animals with respect for their safety and welfare.		