Danville Area School District
Course Overview and Scope and Sequence

Course Title: Integrated Science
Content Area: Science
Grade Level: 9th
Date Developed: June 2023

COURSE OVERVIEW: Integrated Science is an introductory course that will help prepare students for the Keystone Biology Exam by examining the key concepts of Ecology, scientific investigation, physical science, and levels of biochemical organization. This course leads directly into the Keystone Biology course in 10th grade.
ANCHOR STANDARDS: 1. The History of Planet Earth 2. Earth Materials and Systems 3. Plate Tectonics and Large-Scale System Interactions 4. The Roles of Water in Earth's Surface Processes 5. Weather and Climate 6. Biogeology 7. Natural Resources 8. Natural Hazards 9. Human Impact on Earth's Systems
KEY COURSE TEXT AND MATERIALS: Physical Earth and Space Science: An Integrated Approach
KEY ASSESSMENTS: Diagnostic: None

Formative: Oral quizzes, labs and activities, bell ringers, exit tickets, gizmo, end of section reviews and class discussions
Summative: Quizzes and Tests

SCOPE AND SEQUENCE					
Unit	PRIORITY STANDARDS	SUPPORTING STANDARDS	ASSESSMENT	MATERIALS	TIMEFRAME
Unit 1: Measurement	3.1.10.A 3.1.10.B 3.1.10.D 3.2.10.A	CC.2.1.HS.F.4 CC.2.1.HS.F.5	Edulastic, Lab investigations - measurements, gizmo, class discussion, and test	All content is teacher created. In addition to lab/project supplies, materials are posted in Google Classroom.	15 days
Unit 2: The scientific Process	BIO.B.3.3 3.2.10.C	3.1.10.D 3.2.10.A	Edulastic, Lab investigations - variables, gizmo, class discussion, and test	All content is teacher created. In addition to lab/project supplies, materials are posted in Google Classroom.	17 days
Unit 3: Mapping Earth	3.1.10.E 3.5.10.A	MS-ESS3-2	Edulastic, Lab investigations - topography, gizmo, class discussion, and test	All content is teacher created. In addition to lab/project supplies, materials are posted in Google Classroom.	15 days
Unit 4: Earth's Atmosphere and Weather	3.5.10.C HS-ESS2-2 HS-ESS2-5	MS-ESS2-5 MS-ESS2-6 MS-ESS3-2	Edulastic, Lab investigations - specific heat and	All content is teacher created. In addition to	17 days

	HS-ESS3-1	MS-ESS3-3 MS-ESS3-4 MS-ESS3-5	convection, gizmo, class discussion, and test	lab/project supplies, materials are posted in Google Classroom.	
Unit 5: Chemical Cycles and Climate Change	3.3.9-12.L 3.3.9-12.M 3.3.9-12.S	3.3.6-8.J 3.3.6-8.O	Edulastic, Lab investigations - pH, class discussion, and test	All content is teacher created. In addition to lab/project supplies, materials are posted in Google Classroom.	13 days
Unit 6: Earth's History and Rocks	3.3.9-12.G	3.3.6-8.D	Edulastic, Lab investigations - tree ring dating, gizmo, class discussion, and test	All content is teacher created. In addition to lab/project supplies, materials are posted in Google Classroom.	19 days
Unit 7: Changing Earth	3.3.9-12.F 3.3.9-12.G 3.3.9-12.H 3.3.9-12.I	3.3.6-8.D 3.3.6-8.E 3.3.6-8.F	Edulastic, Lab investigations - plate boundaries, class discussion, and test	All content is teacher created. In addition to lab/project supplies, materials are posted in Google Classroom.	17 days
Unit 8: Earthquakes and Volcanoes	3.3.9-12.O	3.3.6-8.K	Edulastic, gizmo, class discussion, and test	All content is teacher created. In addition to lab/project supplies, materials are posted in Google Classroom.	16 days

Unit 9: Water Systems	3.3.9-12.K	3.3.6-8.H 3.3.6-8.I 3.3.6-8.K	Edulastic, Lab investigations - water tables, class discussion, and test	All content is teacher created. In addition to lab/project supplies, materials are posted in Google Classroom.	17 days
Unit 10: How Water Shapes the Land	3.3.9-12.J	3.3.6-8.G 3.3.6-8.K	Edulastic, Lab investigations - water tables, class discussion, and test	All content is teacher created. In addition to lab/project supplies, materials are posted in Google Classroom.	13 days