Currituck County Schools Earth Science Pacing Guide 2021-2022

Gradin	Time to	Unit of Study
g Period	complet e	
1st Nine Weeks	16 days	HYDROSPHERE EEn.2.3.1Explain how water is an energy agent(current and heat transfer). EEn.2.3.2—Explain how ground water and surface water interact. EEn.2.4.1—Evaluate human influences on freshwater availability. EEn.2.4.2—Evaluate human influences on water quality in North Carolina's river basins ,wetlands, and tidal environments.
1 st Nine Weeks	16 days	METEOROLOGY EEn.2.5.1—Summarize the structure and composition of our atmosphere. EEn.2.5.2Explain the formation of typical air masses and the weather systems that result from air mass interactions. EEn.2.5.3—Explain how cyclonic storms form based on the interaction of air masses. EEn.2.5.4—Predict the weather using available weather maps and data (including surface, upper atmospheric winds, and satellite imagery). EEn.2.5.5—Explain how human activities affect air quality. EEn.2.6.1—Differentiate between weather and climate. EEn.2.6.2—Explain changes in global climate due to natural processes. EEn.2.6.3—Analyze the impacts that human activities have on global climate change (such as burning hydrocarbons, greenhouse effect, and deforestation). EEn.2.6.4—Attribute changes to Earth's systems to global climate change (temperature change, changes in pH of ocean, sea level changes, etc.)
1 st Nine weeks &	22 days	ENVIRONMENTAL STUDIES EEn.2.7.1— Explain how abiotic and biotic factors interact to create the various biomes in North Carolina. EEn.2.7.2—Explain why biodiversity is important to the biosphere.

2 nd nine weeks		EEn.2.7.3—Expalin how human activities impact the biosphere. EEn.2.8.1—Evaluation alternative energy technologies for use in North Carolina. EEn.2.8.2—Critique conventional and sustainable aquaculture practices in terms of their environmental impacts. EEn.2.8.3—Explain the effects of uncontrolled population growth on the Earth's resources. EEn.2.8.4—Evaluate the concept of "reduce, reuse, recyle"
2nd Nine weeks	16 days	in terms of impact on natural resources. LITHOSPHERE EEn.2.1.1—Explain how the rock cycle, plate tectonics, volcanoes, and earthquakes impact the lithosphere. EEn.2.1.2—Predict the locations of volcanoes, earthquakes, and faults based on information contained in a variety of maps. EEn.2.1.3—Explain how natural actions such as weathering, erosion(wind, water and gravity), and soil formation affect Earth's surface. EEn.2.1.4—Explain the probability of an preparation for geohazards such as landslides, avalanches, earthquakes and volcanoes in a particular area based on available data. EEn.2.2.1—Explain the consequences of human activities on the lithosphere (such as mining, deforestation, agriculture, overgrazing, urbanization, and land use) past and present. EEn.2.2.2—Compare the various methods humans use to acquire traditional energy sources (such as peat, coal, oil, natural gas, nuclear fission, and wood).
2 nd Nine Weeks	12 days	ASTRONOMY EEn.1.1.1—Explain the Earth's motion through space, including precession, nutation, the barycenter, and its path about the galaxy. EEn.1.1.2—Explain how the Earth's rotation and revolution about the Sun affect its shape and is related to seasons and tides. EEn.1.1.3—Explain how the sun produces energy which is transferred to the Earth by radiation. EEn.1.1.4—Explain how incoming solar energy makes life possible on Earth.

2 nd Nine	3 days	Final Exam Review
Weeks		