

Middlesex County Schools Curriculum Pacing Guide

Grade/Course MHS Environmental Science

School Year Fall 2012 J. Porter

Time Frame	Unit/SOLs	SOL #	Strand	Essential Knowledge/ Understandings	Date of Common Formative Assessment (i.e. Unit Tests/Benchmark Tests)
Week 1	Scientific investigation review			Scientific Method with strong emphasis on Analysis and Reporting Lab practices	Quiz end of week Test end of Q1
Week 2	Environmental Scientist Tools			pH O2 meter N2 Meter Secchi Disc Seine net	Quiz end of week Test end of Q1
Week 3	The Dynamic Earth			Weather impacts on environment Historical climates	Quiz end of week Test end of Q1

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Week 4	Organization of Life			Communities Populations	Quiz end of week Test end of Q1
Week 5	Ecosystems and Biomes			Rainforests Taiga Tundra Deserts Grasslands Deciduous Forests	Quiz end of week Test end of Q2
Week 6	Aquatic Ecosystems			Benthic environments Coral Reefs Freshwater Ponds, lakes and rivers Estuaries Swamps and Marshes	Quiz end of week Test end of Q2

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Week 7 & 8	The Chesapeake Bay			Bay Health Bay size Watershed impacts Population of Bay Region Change over time	Quiz end of week Test end of Q2
Week 9	Population Dynamics			Carrying Capacity S-Curve J Curve Predator-Prey Relationships Mutualism	Quiz end of week Test end of Q2
Week 10	Human Populations			History of HP Change of HP over time Causes of HP change HP Carrying capacity	Quiz end of week Test end of Q3

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Week 11	Biodiversity			Types of Biodiversity Impacts to Biodiversity How is Biodiversity Sampled	Quiz end of week Test end of Q3
Week 12	Water, Air and the atmosphere			Composition of Atmosphere Water distribution across planet Wind movements	Quiz end of week Test end of Q3
Week 13	Climate Change			Historic climate data Impacts to Climate Greenhouse effect Global Warming	Quiz end of week Test end of Q3

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Week 14	Land resources			Space requirements Use of land History of Land Use	Quiz end of week Test end of Q4
Week 15	Non-renewable vs. renewable resources			Fossil Fuels Renewable energy Nuclear Energy Impacts of Resources on environment	Quiz end of week Test end of Q4
Week 16	Waste			Landfills Incineration Reduction Reuse Recycling	Quiz end of week Test end of Q4

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Week 17	The Environment and human health			Asthma Cancers History of Environmental impact on human health	Quiz end of week Test end of Q4
Week 18	The Future of the environment			Changes that might occur Impact of our current actions on environment	Quiz end of week Test end of Q4