

Iredell-Statesville Schools Pacing Guide

GRADE 6 - Science

Competency Goal 7: The learner will conduct investigations and use technologies and information systems to build an understanding of population dynamics.

Priority Code:  
 E – Essential  
 I – Important  
 N – Nice to Know  
 M – Maintenance  
 Diff – Differentiation Opportunity

NCSOC Standard & Objective	Priority (E,I,N,M) Pacing	Essential Questions What facts, concepts, skills need to be learned?	Instructional/Learning Resources and Activities (Diff)	Integration with Other Curriculum Areas	Assessment (Diff)
7.01 Describe ways in which organisms interact with each other and with non-living parts of the environment: <ul style="list-style-type: none"> <li>• coexistence/cooperation/competition</li> <li>• symbiosis</li> <li>• mutual dependence</li> </ul>	E 4hr.	<ul style="list-style-type: none"> <li>• How do organisms interact with each other?</li> <li>• How do organisms interact with the environment?</li> <li>• Explain the different types of relationships between organisms.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Unit D Ecology</b></li> <li>• TASC Kit</li> <li>• Field Trips: NC Zoo, NC Raptor Center</li> <li>• <b>Activities:</b> Quick Frozen Critters; Dilemma Cards</li> <li>• Foldable Activities(see example page)</li> </ul>		<ul style="list-style-type: none"> <li>• Chapter/Unit Tests</li> <li>• Section/Chapter Review</li> <li>• Standardized Test Practice</li> <li>• Class Labs</li> <li>• Lab Generator</li> <li>• Test Generator</li> <li>• Content Review CD-ROM</li> <li>• Section Quizzes</li> <li>• Diagnostic Test</li> <li>• Unit Projects</li> <li>• Alternative Assessment</li> </ul>
7.02 Investigate factors that determine the growth and survival of organisms including: <ul style="list-style-type: none"> <li>• light</li> <li>• temperature range</li> <li>• mineral availability</li> <li>• soil/rock type</li> <li>• water</li> <li>• energy</li> </ul>	E 4hr.	<ul style="list-style-type: none"> <li>• What determines the growth or survival of organisms?</li> <li>• What limits the growth or survival of organisms?</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Unit B Earth's Surface</b></li> <li>• <b>Unit D Ecology</b></li> <li>• <b>North Carolina Handbook:</b> Designed Systems</li> <li>• TASC Kit</li> <li>• <b>Activities:</b> Oh Deer!</li> </ul>		<ul style="list-style-type: none"> <li>• Chapter/Unit Tests</li> <li>• Section/Chapter Review</li> <li>• Standardized Test Practice</li> <li>• Class Labs</li> <li>• Lab Generator</li> <li>• Test Generator</li> <li>• Content Review CD-ROM</li> <li>• Section Quizzes</li> <li>• Diagnostic Test</li> <li>• Unit Projects</li> <li>• Alternative Assessment</li> </ul>

7.03 Explain how changes in habitat may affect organisms	E 1hr.	<ul style="list-style-type: none"> <li>• How do changes in a habitat affect organisms?</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Unit D Ecology</b></li> <li>• TASC Kit</li> <li>• <b>Activities:</b> A Field, A Forest, and A Stream; Getting to Know Your Environment!; Deadly Links</li> </ul>		<ul style="list-style-type: none"> <li>• Chapter/Unit Tests</li> <li>• Section/Chapter Review</li> <li>• Standardized Test Practice</li> <li>• Class Labs</li> <li>• Lab Generator</li> <li>• Test Generator</li> <li>• Content Review CD-ROM</li> <li>• Section Quizzes</li> <li>• Diagnostic Test</li> <li>• Unit Projects</li> <li>• Alternative Assessment</li> </ul>
7.04 Evaluate data related to human population growth, along with problems and solutions: <ul style="list-style-type: none"> <li>• water disposal</li> <li>• food supplies</li> <li>• resource availability</li> <li>• transportation</li> <li>• socio-economic patterns</li> </ul>	I 2hr.	<ul style="list-style-type: none"> <li>• How do humans contribute to changes in habitats?</li> <li>• How do humans dispose of their waste?</li> <li>• How do effect the environment?</li> <li>• How does population growth and industry impact an area?</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Unit D Ecology</b></li> <li>• TASC Kit</li> <li>• Field Trips: Iredell Co. Landfill, Gordon's Metal Scrap Yard, Water Treatment Plant, Recycling Center</li> </ul>		<ul style="list-style-type: none"> <li>• Chapter/Unit Tests</li> <li>• Section/Chapter Review</li> <li>• Standardized Test Practice</li> <li>• Class Labs</li> <li>• Lab Generator</li> <li>• Test Generator</li> <li>• Content Review CD-ROM</li> <li>• Section Quizzes</li> <li>• Diagnostic Test</li> <li>• Unit Projects</li> <li>• Alternative Assessment</li> </ul>
7.05 Examine evidence that overpopulation by any species impacts the environment.	E 3hr.	<ul style="list-style-type: none"> <li>• How does overpopulation of one species impact the environment?</li> <li>• Why is overpopulation of any species devastating to an ecosystem?</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Unit D Ecology</b></li> <li>• TASC Kit</li> </ul>	Math: Exponential growth	<ul style="list-style-type: none"> <li>• Chapter/Unit Tests</li> <li>• Section/Chapter Review</li> <li>• Standardized Test Practice</li> <li>• Class Labs</li> <li>• Lab Generator</li> <li>• Test Generator</li> <li>• Content Review CD-ROM</li> <li>• Section Quizzes</li> <li>• Diagnostic Test</li> <li>• Unit Projects</li> <li>• Alternative Assessment</li> </ul>

<p>7.06 Investigate processes which, operating over long periods of time, have resulted in the diversity of plant and animal life present today:</p> <ul style="list-style-type: none"> <li>• natural selection</li> <li>• adaptation</li> </ul>	<p>E 4hr.</p>	<ul style="list-style-type: none"> <li>• Explain the process of natural selection.</li> <li>• How do animals adapt to their environments?</li> <li>• Why are adaptations necessary for survival?</li> </ul>	<ul style="list-style-type: none"> <li>• <b>North Carolina Handbook:</b> Natural Selection</li> </ul>		<ul style="list-style-type: none"> <li>• Chapter/Unit Tests</li> <li>• Section/Chapter Review</li> <li>• Standardized Test Practice</li> <li>• Class Labs</li> <li>• Lab Generator</li> <li>• Test Generator</li> <li>• Content Review CD-ROM</li> <li>• Section Quizzes</li> <li>• Diagnostic Test</li> <li>• Unit Projects</li> <li>• Alternative Assessment</li> </ul>
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