

Iredell-Statesville Schools Pacing Guide

GRADE 6, 7, 8 - Science

Competency Goal 2: The learner will demonstrate an understanding of technological design.

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)
2.01 Explore evidence that technology has many definitions: <ul style="list-style-type: none"> • artifact or hardware • methodology or technique • system of production • social-technical system 	I year long integration	What is technology?	<ul style="list-style-type: none"> • The Nature of Technology(pp. xl-xli) • Frontiers in Science and Timelines in Science features in each unit • Unit A Earth's Surface: 1.1, 1.4 • Unit B Energy and the Changing Earth: 1.3, 2.3 ,4.3 • Unit C Waves, Sound, and Light: 2.4, 3.2, 4.4 • Unit D Ecology: 3.3 • Unit E Space Science: 1.2, 1.3, 1.4 		
2.02 Use information systems to: <ul style="list-style-type: none"> • identify scientific needs, human needs, or problems that are subject to technological solution • locate resources to obtain and test ideas 	I year long integration	Identify a problem scientific technology could be used to solve.	<ul style="list-style-type: none"> • Resource Centers • Career Centers • NSTA SciLinks 		

<p>2.03 Evaluate technological designs for:</p> <ul style="list-style-type: none"> • application of scientific principles • risks and benefits • constraints of design • consistent testing protocols 	<p>1 year long integration</p>	<p>How does technology help and/or harm our life?</p>	<ul style="list-style-type: none"> • Unit A Earth's Surface: Science on the Job • Unit B Energy and the Changing Earth: 1.3, Chapter 2 Investigation; Think Science, 4.3; Chapter 4 Investigation • Unit C Waves, Sound, and Light: 2.4, Chapter 2 Investigation; Think Science, 4.4 • Unit D Ecology: 3.3 • Unit E Space Science: 1.4 		
<p>2.04 Apply tenets of technological design to make informed consumer decisions about:</p> <ul style="list-style-type: none"> • products • processes • systems 	<p>1 year long integration</p>	<p>How can technology help you make consumer decisions?</p>	<ul style="list-style-type: none"> • Unit B Energy and the Changing Earth; Think Science; Chapter 4 Investigation • Unit C Waves, Sound, and Light: 3.3 Investigate 		