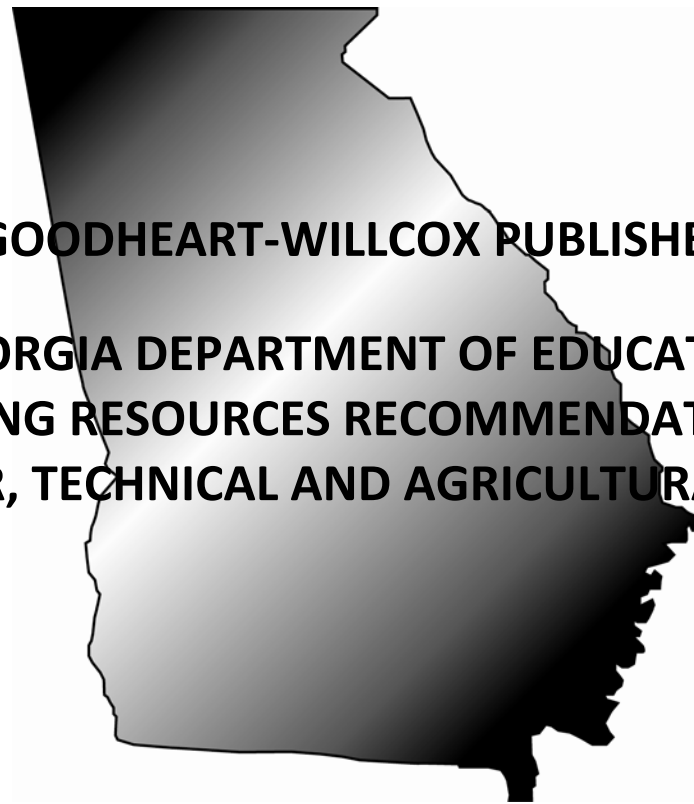




GOODHEART-WILLCOX PUBLISHER

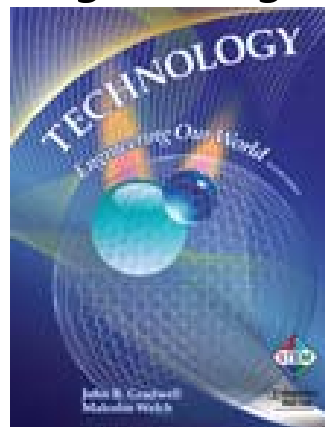
**GEORGIA DEPARTMENT OF EDUCATION
2011 LEARNING RESOURCES RECOMMENDATION PROCESS
GRADES 6-12 CAREER, TECHNICAL AND AGRICULTURAL EDUCATION (CTAE)**



INSTRUCTIONAL MATERIAL CORRELATION

Course: Technological Systems (21.02300)

Text: *Technology: Engineering Our World* ©2012



FORMAT FOR CORRELATION TO THE GEORGIA PERFORMANCE STANDARDS

Subject Area: Career, Technical & Agricultural Education **State-Funded Course:** 21.02300 Technological Systems,
Grade 8

Textbook Title: *Technology: Engineering Our World*

Publisher: Goodheart-Willcox Publisher

The Georgia Performance Standards for Grades 6-12 Career, Technical and Agricultural Education (CTAE) may be accessed on-line at: <http://www.georgiastandards.org/>.

Standard (Cite Number)	Standard (Cite specific standard)	Where Taught (If print component, cite page number; if non-print, cite appropriate location.)
MSENGR-TS-1	Students will develop an understanding of the Universal Systems Model.	
a.	Define Universal Systems Model.	212–217, 290, 329–330
b.	Identify the components of a system.	212–217, 290, 329–330, 402, 416–417, 427
c.	Examine a variety of simple, common systems.	18, 212–217, 402–404, 416–417, 427
MSENGR-TS-2	Students will develop an understanding of how the design process is used to develop a technological system.	
a.	Identify the steps of the design process.	33–42, 190, 299
b.	Identify how systems are used in a variety of settings.	214–220, 289–293, 329–330, 402–404, 463–470
c.	Illustrate how the systems model is utilized in the production of goods.	452–457, 463–469, 475
d.	Construct and work with a variety of systems, including Engineering, Electronics, Manufacturing, and Energy.	223, 334, 367, 428, 449, 475, 497
MSENGR-TS-3	Students will develop an understanding of how humans interact with systems.	
a.	Operate technological systems.	299, 334, 449, 497
b.	Maintain technological systems.	298, 449, 497
c.	Constructing technological systems.	299, 334, 367, 449, 497, 498
d.	Design technological systems.	299, 334, 367, 399, 428, 449, 475, 497, 498
MSENGR-TS-4	Students will develop an understanding of how systems evolve from one stage to	

FORMAT FOR CORRELATION TO THE GEORGIA PERFORMANCE STANDARDS

Subject Area: Career, Technical & Agricultural Education **State-Funded Course:** 21.02300 Technological Systems,
Grade 8

Textbook Title: *Technology: Engineering Our World*

Publisher: Goodheart-Willcox Publisher

The Georgia Performance Standards for Grades 6-12 Career, Technical and Agricultural Education (CTAE) may be accessed on-line at: <http://www.georgiastandards.org/>.

	another.	
a.	Illustrate the evolution of a variety of technological systems.	21, 23, 29, 90, 261, 427, 441–442, 456–457, 460, 528–529
b.	Analyze the reason for the evolution of technological systems.	21, 23, 90, 261, 332, 333
c.	Investigate the cause of system failures.	43, 213, 397, 454, 461
MSENGR-TS-5	Students will recognize and be able to forecast trends in the development of technological systems.	
a.	Gathers data and examine trends that lead to technological advancement.	90, 218–220, 223, 261, 333, 527
b.	Propose a creative and futuristic technological system that may solve emerging human needs.	29, 474, 475
c.	Design and create a model of a futuristic technological system.	
d.	Analyze the qualities of various futuristic technological systems (i.e. benefits, drawbacks, overall efficiency of system, etc.).	29, 443–445, 474, 475
MSENGR-TS-6	Students will recognize relationships among technologies and assess the impact of integrated systems.	
a.	Identify a complex technological system that is made up of several subsystems.	215, 289, 290, 422–424
b.	Explain how the subsystems work together to enable the complex system.	215, 289, 290
c.	Analyze the qualities of various integrated technological systems (i.e. benefits, drawbacks, overall efficiency of system, etc.).	223, 261

FORMAT FOR CORRELATION TO THE GEORGIA PERFORMANCE STANDARDS

Subject Area: Career, Technical & Agricultural Education **State-Funded Course:** 21.02300 Technological Systems,
Grade 8

Textbook Title: *Technology: Engineering Our World*

Publisher: Goodheart-Willcox Publisher

The Georgia Performance Standards for Grades 6-12 Career, Technical and Agricultural Education (CTAE) may be accessed on-line at: <http://www.georgiastandards.org/>.

MSENGR-TS-7	Students will develop leadership skills and work ethics.	
a.	Demonstrate work ethics within the classroom and lab environment.	508–509
b.	Investigate leadership skills through co-curricular activities (i.e. TSA, First Lego League, BEST Robotics, First Vex Challenge, etc.).	510, 527