GOODHEART-WILLCOX PUBLISHER QUESTIONNAIRE

Course: Integrated Technology Studies (8600000)
Title: *Exploring Design, Technology, & Engineering*, Edition: 3rd
Copyright: 2012
Author: Wright, Brown
Grade Level: 6 - 8

Authors & Credentials: List full name of author(s), with major or senior author listed first. Briefly provide credentials for each author.

Dr. R. Thomas Wright is one of the leading figures in technology-education curriculum development in the United States. He is the author or coauthor of many Goodheart-Willcox technology textbooks. Dr. Wright is the author of Manufacturing and Automation Technology, Processes of Manufacturing, and Technology & Engineering. He has served the profession through many professional offices, including President of the International Technology and Engineering Educators Association (ITEEA) and President of the Council on Technology Teacher Education (CTTE). His work has been recognized through the ITEEA Academy of Fellows Award, the ITEEA Award of Distinction, the CTTE Technology Teacher Educator of the Year, the Epsilon Pi Tau Laureate Citation, the Epsilon Pi Tau Distinguished Service Citation, the Sagamore of the Wabash award from the Governor of Indiana, the Bell Ringer Award from the Indiana Superintendent of Public Instruction, the Ball State University Faculty of the Year Award, the Ball State University George and Frances Ball Distinguished Professorship, and the Educational Exhibitors Association–SHIP (EEA-SHIP) Citation. Dr. Wright's educational background includes a bachelor's degree from Stout State University, a master's of science degree from Ball State University, and a doctoral degree from the University of Maryland. His teaching experience consists of 3 years as a junior high instructor in California and 37 years as a university instructor at Ball State University. In addition, he has also been a visiting professor at Colorado State University; Oregon State University; and Edith Cowan University in Perth, Australia.

Dr. Ryan A. Brown is an assistant professor in the Department of Curriculum and Instruction and an associate director of the Center for Mathematics, Science, and Technology at Illinois State University. He currently teaches courses for pre-service teachers on topics such as instructional methods and assessment. Previously, he taught a variety of courses at the secondary level, including design processes, transportation systems, and fundamentals of engineering. Dr. Brown

coauthored *Energy, Power, and Transportation Technology* and *Engineering Fundamentals*. He has also written titles in both the Humans Innovating Technology Series (HITS) and the Kids Inventing Technology Series (KITS) for ITEEA, as well as in the Activity! series for the Center for Implementing Technology in Education. Dr. Brown's educational background includes a bachelor's degree and master's degree from Ball State University and a doctorate degree from Indiana University. Dr. Brown; his wife, Heather; and his sons, Benjamin and Samuel, reside in Normal, Illinois.

Students: Describe the type(s) of students for which this submission is intended.
This submission is intended for Florida high school students enrolled in an Integrated Technology Studies program.

1. IDENTIFY AND DESCRIBE THE COMPONENTS OF THE MAJOR TOOL. The Major Tool is comprised of the items necessary to meet the standards and requirements of the category for which it is designed and submitted. As part of this section, include a description of the educational approach of the submission.

Educational Approach (The information provided here will be used in the instructional materials catalog in the case of adoption of the program. Please limit your response to 500 words or less.)
Exploring Design, Technology, & Engineering is an introductory text that develops students' core knowledge and skills. In it, technology is explained as a system with inputs, processes, outputs, goals, and constraints. Different forms of technology are discussed, including technology from the manufacturing, medical, and transportation industries. Critical thinking is encouraged as problem identification and solution development are discussed. A STEM connection chart identifies cross-curricular connections made in each chapter, making it easier to develop classroom learning plans. Hands-on learning opportunities are available via regular chapter activities and modules that support TSA competitive events. The text is based on ITEEA's Standards for Technological Literacy.

Major Tool - Student Components Describe each of the components, including a format description.

1. *Exploring Design, Technology, & Engineering* student textbook (printed, hard cover, full-color textbook with 704 pages).

2. G-W Learning companion website for *Exploring Design, Technology, & Engineering* is an online study reference that contains activity files, vocabulary exercises, interactive quizzes, and more.

3. Online Student Center for *Exploring Design, Technology, & Engineering* provides the foundation of instruction and learning for digital and blended classrooms. An easy-to-manage, shared classroom subscription makes it a hassle-free solution for both students and instructors. An online student text and workbook, along with rich supplemental content, brings digital learning to the classroom. All instructional materials are found on a convenient online bookshelf that is accessible at home, at school, or on the go.

4. *Exploring Design, Technology, & Engineering* Bundle combines both a printed text and an Online Student Center. All student support materials are available online in a six-year classroom subscription.

Major Tool - Teacher Components Describe each of the components, including a format description.

(N/A - see Ancillary Materials - Teacher Components below)

2. IDENTIFY AND DESCRIBE THE ANCILLARY MATERIALS. Briefly describe the ancillary materials and their relationship to the major tool.

Ancillary Materials - Student Components Describe each of the components, including a format description.

(N/A - see Ancillary Materials - Teacher Components below)

Ancillary Materials - Teacher Components Describe each of the components, including a format description.

Online Instructor Resources include Answer Keys, Lesson Plans, Instructor's Presentations for PowerPoint®, ExamView® Assessment Suite, and more.

3. HOW MUCH INSTRUCTIONAL TIME IS NEEDED FOR THE SUCCESSFUL IMPLEMENTATION OF THIS PROGRAM? Identify and explain the suggested instructional time for this submission. If a series, state the suggested time for each level. The goal is to determine whether the amount of content is suitable to the length of the course for which it is submitted.

Program planning guides are provided to suggest ways to schedule the chapters for different course calendars, including 12-week trimester and 18-week semester courses.

4. WHAT PROFESSIONAL DEVELOPMENT IS AVAILABLE? Describe the ongoing learning opportunities available to teachers and other education personnel that will be delivered through their schools and districts as well as the training/in-service available directly from the publisher for successful implementation of the program. Also provide details of the type of training/in-service available and how it may be obtained. (The information provided here will be used in the instructional materials catalog in the case of adoption of the program.)

In-service/staff development training is available during the life of the adoption in various formats upon request. Training support documentation can be provided in print or webinar and is available at no cost for the hours needed. Please contact G-W Educational Consultant Irene deVarona (877.327.4209 phone, idevarona@g-w.com e-mail) to arrange mutually-agreed upon in-service dates and formats.

5. WHAT HARDWARE/EQUIPMENT IS REQUIRED? Briefly list and describe the hardware/equipment needed to implement the submission in the classroom. REMEMBER: Florida law does not allow hardware/equipment to be included on the bid! However, schools and districts must be made aware of the hardware/equipment needed to fully implement this program.

For Online Materials: • Operating System: Microsoft Windows XP/VISTA/7/8, Mac OS 10.4 or later, or Mac iOS 4.3 or later. • Minimum Hardware: 600 MHz processor; 128 MB RAM; monitor or touch screen display. • Online Access: Internet or Wi-Fi connection is required; cookies and JavaScript enabled for full functionality. • Recommended Web browsers: Firefox, Internet Explorer, Chrome, or Safari.

6. WHAT LICENSING POLICIES AND/OR AGREEMENTS APPLY? If software is being submitted, please attach a copy of the company's licensing policies and/or agreements.

Not Applicable

7. WHAT STATES HAVE ADOPTED THE SUBMISSION? List some of the states in which this submission is currently adopted.

Exploring Design, Technology, & Engineering (and its previous title *Technology: Design and Applications*) has been adopted in Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, and Texas.

8. LIST THE FLORIDA DISTRICTS IN WHICH THIS PROGRAM HAS BEEN PILOTED IN THE LAST EIGHTEEN MONTHS.

Not Applicable