

Table 3

Mean and Standard Deviation on the Value of Seven Statements as Elements of Theory for Technology Education.

1 . Upon the completion of high school every student should have a "citizens" level of understanding of and ability with technology (i.e., technological literacy as commonly defined). In other words, a basic awareness of and ability with technology is essential for survival and productive citizenship now and in the future,		
a. This is a foundational theory for T.E.	4.58	0.50
b. There is adequate research evidence to support this theory.	2.12	0.99
c. This should be a major concern for future research.	4.15	0.91
2. Technology education is a primary means by which "technological literacy" can be delivered to all students.		
a. This is a foundational theory for T.E.	4.24	0.97
b. There is adequate research evidence to support this theory.	2.18	1.01
c. This should be a major concern for future research.	4.09	1.04
3. Learning by doing in a "real-world" context is the primary means by which most people learn most effectively.		
a. This is a foundational theory for T.E.	4.15	0.91
b. There is adequate research evidence to support this theory.	2.64	1.17
c. This should be a major concern for future research.	3.94	1.12
4. Human endeavor provides the best organizer for the content of K-12 technology education. In addition, human endeavor falls into three categories: producing things, communicating information and ideas, and transporting people and things.		
a. This is a foundational theory for T.E.	3.52	1.20

b. There is adequate research evidence to support this theory.	2.27	1.10
c. This should be a major concern for future research.	3.55	1.03
5. Technology is systematic and should be studied as such. To adequately understand technology, students should be exposed to the components and processes of a wide variety of technological systems.		
a. This is a foundational theory for T.E.	4.15	0.91
b. There is adequate research evidence to support this theory.	2.39	1.06
c. This should be a major concern for future research.	3.73	1.01
6. Technological activity produces positive and negative impacts. An understanding of these impacts is a major component of "technological literacy." To properly understand technology, students must be exposed to these impacts and explore solutions for negative impacts of various technologies.		
a. This is a foundational theory for T.E.	4.42	0.50
b. There is adequate research evidence to support this theory.	2.39	0.97
c. This should be a major concern for future research.	4.15	0.80
7. Successful human beings in a post-industrial society must be able to think clearly, creatively, and critically. They must be able to identify and solve problems, and make good decisions.		
Technology education is a primary means by which students can be taught to think.		
a. This is a foundational theory for T.E.	4.24	1.12
b. There is adequate research evidence to support this theory.	2.39	1.20
c. This should be a major concern for future research.	4.15	0.97
