

Industrial Technology & Skills and Technical Science Board Report 2015-2016

1. Multi-Cultural Aspect:

As part of the Industrial Technology classes, the students are taught through the four areas of industrial technology. These areas are Communication, Construction, Manufacturing and Transportation. All areas are discussed in classes and all areas are covered but the manufacturing seems to be the most interesting topic when the students have class discussions. The students every year are overwhelmed by how many items are manufactured in different countries around the world.

2. What do we want students to learn?

Industrial Technology (IT) or Skilled and Technical Science (STS) curriculum is based upon the Nebraska Career Education Standards that align with the Nebraska Career Education Model.

The Mission Statement for IT or STS department is to equip students with the desire to have employable skills and to develop knowledge & expertise for the modern technical world.

First and foremost I want each student who walks through the Industrial Technology/Skilled and Technical Science area to be able read a tape measure which is a skill that will be with them for a life time. In order to prepare students for the outside world, I emphasize the importance to each student to join SKILLS USA and discuss with them about the shortage of people in the trades industry. One example of a trade's shortage, is that by the end of this year, the United States will be in need of 250,000 welders. Another option I tell students about who do not know what they want to do right away is to look into the military after high school.

Other activities we will be doing in the next couple of months is to take students on a Metro Community College tour and two manufacturing tours to show students what is available for them at trade schools and businesses after high school.

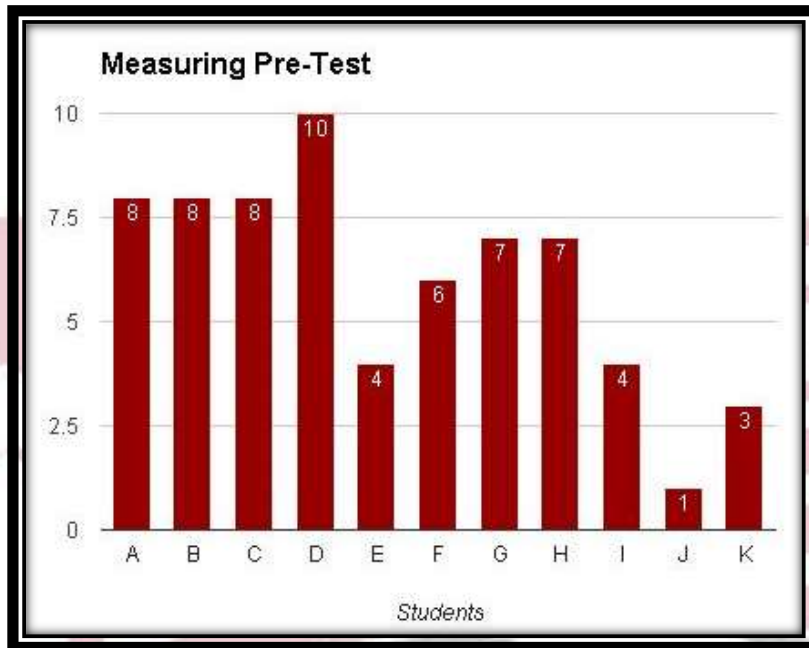
I use the following assessments in my lab class to prepare students to be employable.

Daily Employable Rubric
Project Rubric
Quizzes & Test
Article Reviews

3. How do we know students are learning?

Currently in my 8th grade Exploratory Technology class students are being assessed 3 times throughout the semester on learning to read a tape measure. Data is collected regarding progress and scoring in the bottom quartile. Measuring tests will be given three times to analyze student growth. In between the three tests students will be working on projects that involve measuring on a consistent bases.

Below is data from my Measuring Pre-test.



4. How do we respond when students are not learning?

I will take those students and go back and re-teach the basics and have other activities in measuring to help them have a better understanding.

5. How do we extend or enrich the learning for students who exceed proficiency?

Students that score an 85% or better will help me with more difficult projects.

6. Other Information

The Nebraska Career Education Standards were revised and adopted on August 15, 2015. We have begun to work to adjust Industrial Technology and Skilled & Technical Sciences curriculum to these standards.