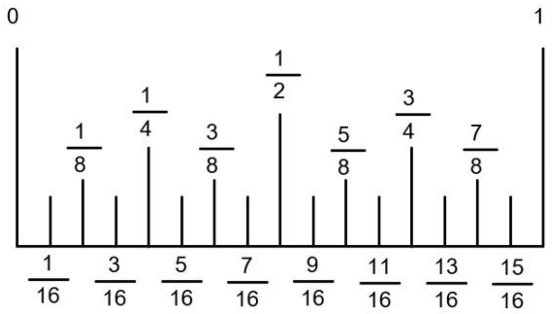
Manufacturing

TMJ1O

Imperial Measurement Project

Project Outline

This module is designed as a grade 9 beginner project. The purpose of this lesson is to refresh or teach imperial ruler reading. This project can be used as a refresher project for a student moving from TMJ20 to TMJ3C or as a way of introducing the skill of Imperial Measurement to a student new to Manufacturing Technology.



Learning Goals

By the end of this project the students will:

- understand and recognize the graduations on an Imperial measurement scale.
- be able to accurately read measurements using an Imperial measurement scale.
- use an imperial measurement scale to accurately measure objects and communicate their dimensions.

Student Activities

Activity 1 – Introduction of the Imperial System (30 minutes)

Activity 2 – Imperial Scale Practice (60 minutes)

Activity 3 – Application of Measurement (60 minutes)

Activity 1

Introduction of the Imperial System

The goal of this activity is to introduce students to Imperial measurement and how to accurately read the Imperial measurement scale.

- **Students will go over the slide show with the instructor and practice as a class in real time.**
- **This will introduce the students to basic imperial measurement.**

[Imperial Measurement Presentation]

Additional Materials: Classroom projector, student rulers

Activity 2

Imperial Scale Practice

The goal of this activity is for students to practice and expand on their knowledge learned during Activity 1. Students will use the Google quizzes or PDF handouts to select the correct measurement from the labeled Imperial scale.

Google Quizzes

Inch Rule Reading "Whole Inches"
Inch Rule Reading "Half Inches"
Inch Rule Reading "Quarter Inches"
Inch Rule Reading "Eighth Inches"
Inch Rule Reading "Sixteenth Inches"

PDF Quizzes

Inch Rule Reading "Whole Inches"
Inch Rule Reading "Half Inches"
Inch Rule Reading "Quarter Inches"
Inch Rule Reading "Eighth Inches"
Inch Rule Reading "Sixteenth Inches"

Additional Materials: Classroom projector, computers with internet access, student rulers

Activity 3

Application of Measurement

The goal for this activity is for students to practice the skill of measuring using a Ruler or Tape Measure. This skill will be expanded upon during the semester while working in the shop/classroom on practical projects.

Line Measurement Handout

Additional Materials: Student rulers

Lesson Plan

For complete lesson plans, instructional materials, and additional handouts click this link.