



JC Schools Metals Technology II Yearly Standards

Overarching Standards

9-12.MT.LO.01

Recall and follow safety rules in the basic operations of hand and power tools

Units	Priority Standards	Supporting Standards
Unit 1 Shop Knowledge 12 Days	9-12.MT.LO.27 Review careers relating to the metals industry 9-12.MT.LO.03 Identify and describe the different metals used in the metal working industry 9-12.MT.LO.04 Identify and describe the fasteners used in metalworking	9-12.MT.LO.05 Evaluate the proper uses of each fastener and why they are important to the industry
Unit 2 Industrial Math 11 Days	9-12.MT.LO.06 Apply knowledge of adding and subtracting fractions to solve practical problems 9-12.MT.LO.28 Use advanced industry measuring and layout tools	9-12.MT.LO.08 Demonstrate an understanding of metric and standard measuring 9-12.MT.LO.29 Perform measurements utilizing calipers and micrometers
Unit 3 Gas Metal Arc Welding	9-12.MT.LO.30 Utilize Gas Metal Arc Welding to assemble a project	9-12.MT.LO.31 Perform and setup the Gas Metal Arc Welding for proper usage 9-12.MT.LO.32

32 Days		Demonstrate proper repairs on external components of Gas Metal Arc Welding
		9-12.MT.LO.33 Weld various joints utilizing the Gas Metal Arc Welding process
Unit 4	9-12.MT.LO.34 Utilize the lathe to assemble a project	9-12.MT.LO.35 Demonstrate the basic techniques of operating the lathe
Machining 10 Days		9-12.MT.LO.36 Identify and describe the major parts of the lathe
Unit 5	9-12.MT.LO.37 Utilize sheet metal to assemble a project	9-12.MT.LO.21 Recall basic tools used while working with sheet metal
Sheet Metal 11 Days		9-12.MT.LO.38 Explain and identify different attachment options for sheet metal assembly
		9-12.MT.LO.39 Demonstrate and explain the various folds and bends utilized in the sheet metal industry
Unit 6	9-12.MT.LO.40 Utilize the Oxy-Acetylene process to assemble a	9-12.MT.LO.41 Demonstrate proper use of the oxy-acetylene torch
Oxy-Acetylene	project	9-12.MT.LO.42 Perform herizontal cuts on metals using the
12 Days		Perform horizontal cuts on metals using the oxy-acetylene torches