Name of Unit: **Precision Machining 2nd-Year Students**	
Grade	**12**
Unit of Study	**Measurements and Machining**
Length of Unit	**12 Days**

Missouri Learning Standards

J18 Demonstrate basic tool maintenance (i.e. grinding and sharpening) © **J19** Perform drilling operations using a tap chart, drill chart, and formulas © **J20** Calculate feeds and speeds	**J21** Perform basic lathe operations **J22** Perform basic mill operations

Learning Targets

I can describe how to properly set up a workpiece and perform a basic climb cut.
I can set up a mill or lathe and complete a basic cut.
I can mill/lathe a piece of stock to within 20 thousandths of an inch.

Intervention and Enrichment

If a student requires additional help with the lesson, I will meet with the students to discuss a plan going forward.

Assessments

MLS (Learning Goal)	Description or Location
● Students use skills learned to create a spinning top	Precision machining folder
● Students create a Fire Piston	Precision machining folder

Vocabulary

Lathe Chuck Boring tool	Micrometer Caliper Digital Read Out	Stock Tool Jaw Parallel	

Instructional Materials

PowerPoint notes
Vertical mill
Lathe

Additional Instructional Resources

See {Name of Folder} folder

Reflections for Future Revisions

{Text}