Teacher Name : Joseph Chicalese **Subject :Precision Machine** **Start Date(s): 4/8-12** **Grade Level (s): I II III**
Building:

HAZLETON AREA SCHOOL DISTRICT

DISTRICT UNIT/LESSON PLAN

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Unit Plan

Unit Title: an educational unit title summarizes content across several lessons that establishes and reinforces certain skills and essential knowledge for grade levels and content areas.

Examples - *Building Complete Sentences*

Essential Questions: Essential questions are concept in the form of questions. Questions suggest inquiry. Essential questions are organizers and set the focus for the lesson or unit. Essential questions are initiators of creative and critical thinking. Essential questions are conceptual commitments focusing on key concepts implicit in the curriculum

Examples - What must a scientist do in order to research something?
What is the role of geometry in advertising, architecture, or fabric design?
Do stories need a beginning, middle, and end? Why?
How do people express themselves through art today?

Standards: PA Core Standards, PA Academic Standards/Anchors (based on subject)

Summative Unit Assessment :

Summative Assessment Objective	Assessment Method (check all that apply)
Students will-	____ Rubric ___ Checklist ____ Unit Test ____ Group ____ Student Self-Assessment _____Performance Assessment ____ Other (explain)

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DAILY PLAN

Day DT	Objective (s)	DOK	Activities / Teaching Strategies	Grouping	Materials / Resources	Assessment of Objective (s)
M 1	Level I – Task 701,702,704,706, 710,714 Learning objectives: Identify the operations of hole making on a lathe. Level II & III Nims projects CNC programing		Students will prepare material in a 4 jaw chuck for a boring operation. After all operations for boring and counter-bore are completed, students will thread internal diameter for a 1 ½ -12 UNF-2B thread. Students will continue with Nims projects by levels. CNC codes G02 and G03 worksheet			Formative- Summative- Student Self – Assessment-
T 2	Level I – Task 701,702,704,706,710,714. Learning objectives: Identify proper tooling and set up for boring operations. Level II & III Nims Benchwork, Nims Drill Press, Nims Miliing, Nims Turning between centers CNC Programing		Continue with project – Machine Shop Boring & internal threading Students will continue with Nims projects by levels. CNC codes G02 and G03		PMT handbook Unit 6 Section 1 Milling machine components Nims blueprints and necessary tooling and machinery.	Formative- Summative- Student Self - Assessment-
W 3	Level I – Task 701,702,704,706,710,714. Learning objectives: Bore a taper 30 degrees. Nims Benchwork, Nims Drill Press, Nims Milling, and Nims Turning between centers. CNC Programing		Continue with project – Machine Shop Boring & internal threading. Students will continue Nims projects by levels. CNC project # 5 circle pocket using G02 and G03 codes.		PMT handbook Unit 6 Section 1 Vertical milling machine component functions. Nims blueprints and necessary tooling and machinery.	Formative- Summative- Student Self - Assessment-

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T H 4	**Level I - Continue with task 701, 702,704,706,710,714.** **Level II & III** **Nims Layout, Nims Benchwork, Nims Drill Press, Nims Milling, Nims Turning between centers.** **CNC Programing**		**Students will continue with boring project boring a 30 degree taper.** Internal Threading Students will continue with Nims projects by level. CNC project #5 using the classroom control panels for the Haas CNC milling machine.		**PMT handbook Section 1** **Unit 6** **Vertical milling machine** **Edge finder** **Nims blueprints and necessary tooling and machinery.**	**Formative-** **Summative-** **Student Self - Assessment-**
F 5	**Level I – Continue with task 701,702,704,706,710,714** **Level II & III** **Nims Layout, Nims Benchwork, Nims Drill Press, Nims Milling, Nims Turninig between centers.** **CNC Programing**		**Students will continue with boring project boring a counter bore 1.750 in diameter and .375 in length to complete project.** **Internal threading.** **Students will continue with Nims projects by level.** **CNC project #5 and project #O027**		**Vertical Milling Machine Test** **Nims blueprints and necessary tooling and machinery.**	**Formative-** **Summative-** **Student Self - Assessment-**