Unit: Threads & Fasteners
Learning Goals:
In this unit:
1. Students will learn/apply threads and fasteners concepts that are essential for being able to read a thread note and draw threads.
2. Students will identify uses of threads and different thread types/forms.

Rigorous Learning Goal/Scale 1

Course:	Advanced Engineering Drawing –Threads/Fasteners
Score 4 Additional Success with the complex content and concepts—inferences, novel applications	**In addition to score 3.0 performance, the student demonstrates in-depth inferences and applications that go beyond what was taught.** • ***Student is able to explain how to read a thread note and how it is used to draw threads/fasteners in different forms.*** Student makes no major errors or omissions regarding the score 4 content
Score 3 Mastery of complex content and concepts of learning goal	**TARGET LEARNING GOAL: The student will** • **Can identify the concepts/parts of a threads/fasteners drawing in relation to the thread note specifications.** Student makes no major errors or omissions regarding the score 3 content
Score 2 Success with simpler content—vocabulary, foundational skills	**The student will recognize or recall specific vocabulary or basic content, such as:** • **Helix, Internal/External threads, Pitch, Root, Maj/Min Dia., Thread depth/angle, Crest, Root, Thread Note** **The student will perform basic skills or process, such as:** • **Using CAD –new = Array, Pline, Offset, Chamfer** • **measurement application** • **orthographic visualization/interpretation** Student makes no major errors or omissions regarding the score 2 content
Score 1 Partial success with help	**With help, student achieves partial success at score 2 content and/or score 3 content**
Score 0 No success even with help	**Even with help, no success**

Rigorous Learning Goal/Scale 2

Course:	Advanced Engineering Drawing –Threads/Fasteners
Score 4 Additional Success with the complex content and concepts—inferences, novel applications	**In addition to score 3.0 performance, the student demonstrates in-depth inferences and applications that go beyond what was taught.** • *Student is able to independently draw the best choice of representation for threads/fasteners as per the thread note and need. (Simple, Detailed or Schematic representation).* Student makes no major errors or omissions regarding the score 4 content
Score 3 Mastery of complex content and concepts of learning goal	**TARGET LEARNING GOAL: The student will** • **learn/apply appropriate Threads & Fasteners concepts and be able to draw Different forms/representations for threads.** Student makes no major errors or omissions regarding the score 3 content
Score 2 Success with simpler content—vocabulary, foundational skills	**The student will recognize or recall specific vocabulary or basic content, such as:** • **Helix, Internal/External threads, Pitch, Root, Maj/Min Dia., Thread depth/angle, Crest, Root, Thread Note** **The student will perform basic skills or process, such as:** • **Using CAD –new = Array, Pline, Offset, Chamfer** • **measurement application** • **orthographic visualization/interpretation** Student makes no major errors or omissions regarding the score 2 content
Score 1 Partial success with help	**With help, student achieves partial success at score 2 content and/or score 3 content**
Score 0 No success even with help	**Even with help, no success**