Unit: Building a Tank Drive Robot
Learning Goals:
In this unit:

1. *Students will demonstrate teamwork,knowledge and skills to safely fabricate a Tank Drive Robot chasis*
2. *Students will be able to connect electrical compononets and program Labview to control the Tank Drive Build*

Rigorous Learning Goal/Scale 1

Course:	Robotics – Tank Drive Build
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 demonstrates knowledge/skills for how to build the tank drive system so that parts are square/aligned for most efficient performance and can explain to other students how to do so in a leadership role.* 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** • *be able to form teams, plan task and use knowledge and skills to safely fabricate a Tank Drive Robot chasis* 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:** • *Cim motor, Cim box, PD board, Robo-Crio, Breaker, Talon* **The student will perform basic skills or process, such as:** • **Team work/planning, CAD plans, , Fabricate frame parts, Wire Electrical Circuits** • 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:	Robotics – Tank Drive Program
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 can design/create a Labview program and customize/trouble shoot it to achieve various robot task.*** 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** • ***be able to install/connect electrical components and program Labview to control the Tank Drive Build*** 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:** • ***LabView basic programming vocabulary*** **The student will perform basic skills or process, such as:** • **Team work/planning, Wire Electrical Circuits, Trouble-shoot** 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**