



Cohorts implementing this PD: Deanna Barnes Kelsey Birdwhistell Alyssa Stewart

Title: Engineering Greatness

2. We have chosen the PD option. This option best aligns with our cohort initiative. Data was collected from our students, and we discovered a deficit in the area of STEM career knowledge. As a result, we have been working toward spreading STEM career knowledge throughout our school. In this lesson we will be spreading knowledge of engineering careers and engineering techniques.

3. A)The teachers serving in this PD are the GRREC cohort members. The project results will be presented at STEM fest in November.

B)This is an 8th grade project. Our student audience is all students at West Hardin Middle School. There are approximately 140 students who will be reached by this lesson. The lesson presented will be taught in Math and ELA classes.

4. This project will demonstrate integration of STEM in WHMS classrooms by providing students with STEM career lessons, demonstrations and prospective pathways. In the math classroom, students consistently ask questions about how they will use what they are learning in the real world. The STEM career connections to the classroom allow students to see how the content that is being taught is relevant to their life. The focus of this particular lesson is engineering. We will be using a NASA engineering design lesson, which was introduced to us via the endeavor courses.

<https://www.nasa.gov/sites/default/files/atoms/files/landing-humans-activity-one.pdf>

5. We hope to see an increased use of career based learning and lessons. We want to provide direct links to STEM pathways for middle school students who are preparing for high school career pathways. We also hope to help students see the relevance of the content that we are teaching so it becomes engaging and more beneficial to them.

6. We will follow up with teachers to ensure that we are providing enough information and resources so that they can adequately provide STEM lessons to their students. We will collect follow up data via a Google Form survey, which will be sent out by the cohort leader. We will also be providing PD attendees with our contact information so that they can reach out with any questions or concerns.

Note for Deanna–NASA recent launch of Artemis 1