

To follow up on last week's Balloon Astronaut Challenge our ePrep students were challenged by the classic physics experiment of the egg drop.

The Goal: This is a creative challenge for future engineers: design an egg contraption that would prevent an egg from breaking when dropped from the "ceiling" in the Engineering Makerspace.

Constraints: You may only use the materials given which included:

5 popsicle sticks, 5 straws, 5 rubber bands, 2 sheets of paper, 100 cm of string and 100 cm of tape.

Student Outcomes:

1. Students will be able to design and build a protective device to keep their egg intact when dropped from a height.
2. Students will be able to explain design considerations based on material characteristics, and concepts of energy, velocity, and the physics of colliding objects.
3. Students will be able to utilize the design process to meet an engineering challenge and build upon their past challenge experiences.

Summary: Failure is just as important as the successes. It allows us to reevaluate, assess what works and doesn't and teaches us to be resilient.

This week our ePrep students were confronted with the need for success on a single attempt during the challenge. Two teams had success.



Team #1 included Kheziah Frazier and Ramone Washington (on the left) while Team #2 included

Hal Johnson and Montinez Mays (on your right). All ten students participating had some fun and experienced both successes and some failure. The two teams were awarded prizes and earned bragging rights among the group.





ePrep Challenge Pictures – Egg Drop 2019

