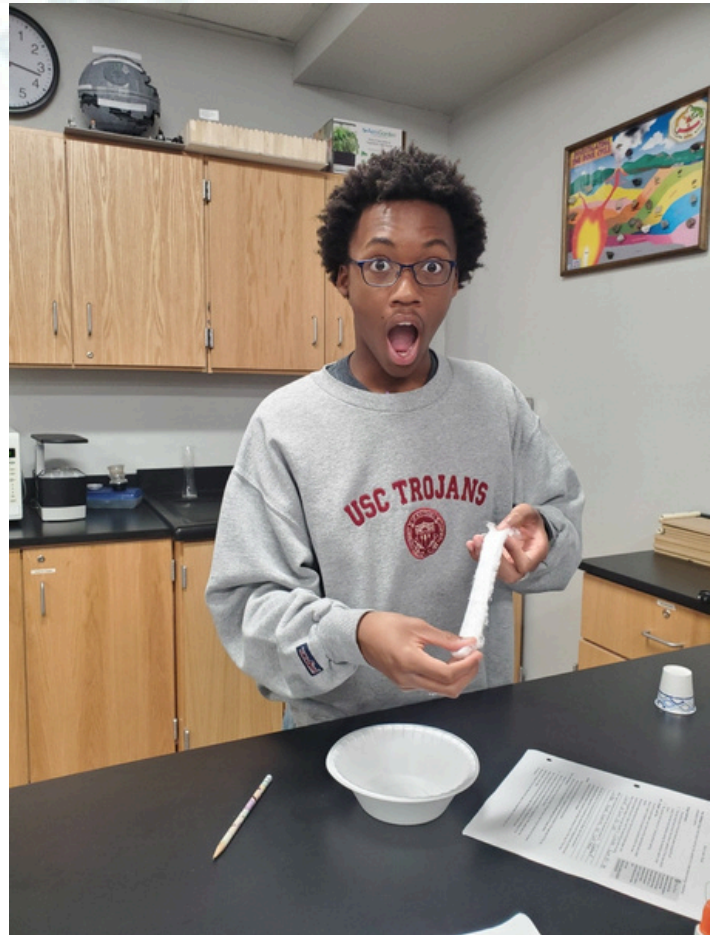


Science Lab: Engineering Heat Shields

The 8th grade class applied concepts of engineering to design a heat shield to protect the contents (chocolate) of a crew module (paper cup) during a simulated atmospheric reentry (hair dryer). They were inspired by the heat shield for the Orion space capsule, which is part of NASA's Artemis program that aims to establish a long-term human presence on the moon. After considering different types of heat transfer and the specific heat of various materials, the students designed and tested their prototypes. Some of the chocolate astronauts survived, but sadly, many of them melted during the first round of testing! On Monday, the 8th grade class will modify their designs to hopefully construct even better heat shields.



Science Lab: Engineering Heat Shields

