**GCU E-Week 2020 Design Competition Rules – Intermediate Bracket**

**Final Bridge Design Test**

* Teams may run as many tests as they desire before their final design test.
* Teams must test their final bridge design the week of E-Week, (February 14th-21st).
* Teams are expected to abide by the following guidelines:
  + The build of the test must be recorded in time-lapse fashion, and must be provided via email to the GCU representatives listed below.
  + Teams must be available to have their local GCU counselor present for the final bridge test in order to ensure fairness within the competition.
    - Time-lapse videos must consist of the following standards:
      * *A time-lapse video must be uploaded to YouTube, set on ‘Public Status,’ and sent to the GCU representatives listed below.*
      * Must show the full building of the bridge, from start to finish.
      * If the local GCU Counselor is unavailable to be present for your team’s final design test, teams must submit a final test video. This video must show the full amount of weight placed on the bridge. Once it breaks the bridge, in a continuous shot, teams must weigh the weight applied to the bridge, and have the final measurement visible on camera. *Along with the time-lapse video, this video must be uploaded to YouTube, on ‘Public Status,’ and sent to the representatives below.*
    - Videos, in a YouTube link format, must be sent to the following emails:
      * Your team’s local GCU Counselor
      * [Tyler.lago@gcu.edu](mailto:Tyler.lago@gcu.edu)
      * [Alex.garwood@gcu.edu](mailto:Alex.garwood@gcu.edu)
      * [Daniel.armas@gcu.edu](mailto:Daniel.armas@gcu.edu)
  + Teams must also post their team’s video on their social media platform, using the following hashtag: #GCUEWeek2020
    - This must be included in the title of the team’s video
  + **Teams must submit their final test prior to 12:00 PM (Arizona Time) on Friday, February 21st. All late submissions will not be considered in the final results.**

**How GCU Will Announce the Winning Team**

* Grand Canyon University will do the following to notify teams when announcing the final results on the afternoon of Friday, February 21st:
  + The winning team will be sent a confirmation email informing them of their team’s success, as well as the prize they will receive.
  + All losing teams will be sent a confirmation email stating that unfortunately their team did not win.
  + The winning team’s video will be re-posted on GCU’s social media platforms via the YouTube video link provided.

**Design Specifications**

* Teams may only utilize the following materials from the following vendors:
  + 4oz of Wood Glue Bottle (Max) – [Link](https://www.amazon.com/Gorilla-Wood-Glue-ounce-Bottle/dp/B00HDM9I3S/ref=sr_1_7?keywords=wood%2Bglue&qid=1569261384&sr=8-7&th=1) to the vendor
  + 1000 Toothpicks (Max) – [Link](https://www.amazon.com/1000-Count-Natural-Bamboo-Toothpicks/dp/B00PBK4NG6/ref=sr_1_8?keywords=toothpicks&qid=1569260990&sr=8-8) to the vendor
* Teams must test the final bridge design by wrapping at the bottom of their bridge, and using a hook, attach the weight to the rope. The photo below is an example:



* This competition will be measuring the maximum weight in **Newtons**. The ratio between max load vs weight will not be considered in this competition.
* Maximum dimensions
  + Length of the span of the bridge (the gap between the cliffs): 3 ft.
  + Height: 2 ft.
  + Width of the surface of the span: 8 inches (minimum 2 inches)