



## Engineering Design Process (EDP) in Review

Composite Airplane Activity

Spotlight on Project Planning

Virtual Workshop via Zoom

March 27, 2021

### Preparing Flight Testing Station Material and Set-up Instructions

Identify area for Flight Testing Station (15 feet long distance and 5 feet wide) – *contact Davin if sufficient space is not available at sasakidy@hawaii.edu*

#### **Fifteen (15) feet string guide on Cardboard: DISTANCE of Flight Path**

1. Select the string guide labeled: DISTANCE of Flight Path
2. Remove rubber band
3. Carefully remove blue masking tape
4. Hold both wooden sticks and gently unroll string guide from cardboard. Notice two color markings on the string guide. **BLACK** marks 5 feet from start “stick” and **RED** marks 10 feet from start. Be sure the **BLACK** mark is closest to the start of the flight path.
5. Keep in mind that you want the “distance” string guide to be in the middle of the 5 feet width of the test area.
6. Position and lay out the DISTANCE string guide.

#### **Five (5) feet string for WIDTH of Flight Path**

1. Select the string guide labeled: WIDTH of Flight Path
2. Pull the loop of string with the **RED** mark between the 2 sticks allowing the string to unroll.
3. Unroll the string. You should have a string that is 5 feet with a stick at each end.
4. Notice a **RED** mark in the middle of the WIDTH string guide.
5. Position the WIDTH string guide perpendicular to the DISTANCE string guide.
6. The **RED** mark on the WIDTH string guide should be placed on the RED mark of the DISTANCE string guide.

#### SET UP DIAGRAM

