### Glider Contest

#### Level:
Elementary School/Grades K - 5

#### Teams:
1-2 student(s) per team

#### Overview:
Students will design and construct a glider which will fly the farthest distance before hitting the floor or stopping on another object.

#### Materials:
The following materials will be provided by MESA:
- One Foam Poster Board 20” X 15”
- Foam pipe insulation 1 ½” dia. x 2’ long
- Wire Hook
- Rubber band powered hand launcher

Any type and amount of glue can be used, but keep the glider’s weight in mind.

Students must use launchers/catapults provided by TSPS MESA at MESA Day.

#### Rules:

1) Gliders can only be made from the material provided by MESA.

2) Purchased kits are not allowed.

3) The maximum weight of a glider must not be more than 50 grams.

4) A glider, which meets all requirements, but appears to the judges to pose a danger to persons or property, will be disqualified at the sole discretion of the judges.

5) Each team will be permitted one glider at the contest.

6) Gliders may also be painted/decorated, but keep in mind that paint adds weight. (markers and colored pencils are good alternatives to paint)

7) The glider must have a hook on the underside of the fuselage to permit launching with the catapult.

8) The glider is hooked to the rubber loop at the end of the catapult. The contestant pulls the glider back until the hook of the glider touches the wooden stop at the front of the stop plate on the catapult (see diagram below). The launch angle of the catapult is determined by the contestant. Any launches made with the nose hook pulled beyond the stop plate will be counted as an un-scored launch, thereby reducing the number of scored launches for the contestant.
Judging:

1. All flights measured by a judge are official flights, regardless of distance achieved.
2. Each team is allowed 3 flights; the best flight of the 3 will be recorded as the team’s score.
3. In the event of a tie, duplicate medals will be awarded.
4. Gliders can be repaired or modified between trials if necessary.

Awards:
Farthest Flight: 1st, 2nd, and 3rd place.