



MARTIN COUNTY FAIR AND SCHOOL DISTRICT PRESENT:

THE 4th ANNUAL STEM DESIGN CHALLENGE

STEM Mission:

Design and build an Egg Protection Device (EPD) that will prevent an uncooked egg from breaking when dropped from two (2) successive heights.

CONSTRUCTION SPECIFICATIONS -All egg crates must meet the following specifications:

Student name(s)- grade-school- teacher must be clearly written on device

MATERIALS

- A. Parachutes, balloons, helium balloons, propellers (of any type) or inflatable material (i.e. inflatable foam, bubble wrap), liquids, oils, food items of any kind are **NOT** permitted. No glass or shattering materials.
- B. Eggs will be supplied (Large chicken eggs).

CONSTRUCTION

- A. The maximum dimensions of the crates shall be 8" x 8" x 8".
- B. The entire egg crate must be able to pass through a square aperture of 8 inches by 8 inches (8" x 8") in all three axes to be eligible for competition.

TESTING AND JUDGING

- A. Each egg crate will be measured and drop tested from two (2) successive heights.
- B. Material may not differ after the first drop; only one crate may be used for both drops.

Only one entry per individual or group

Trophies will be awarded in each age category- elementary- middle –high,
In the case of a group project winner one trophy will be awarded for display in the classroom

TIMELINE OF EVENTS

EPD's MUST be dropped off by February 15th (6:00 pm) in order to be in the deployment.

Egg Deployment

Saturday-February 16th 2:00-3:00 pm

EPD's may be dropped off at the front gate during fair hours, must have contact information clearly written on the devise.

Participants do not need to be present to win-if an individual wants to attend the drop they must pay the fair entry fee.

Special Thank You to Our Sponsors



STILES
NICHOLSON
FOUNDATION

