

Speakers Hints for the Eggmobile Project

SET UP – Before kids come into room

1. Before kids come into the classroom put the desks together in clusters. Usually 3 to 4 kids in a cluster, and about 8 clusters (teams) for a class.
2. Put one copy of the Eggmobile Design Competition sheet and the Eggmobile Tally sheet on the desks per cluster. Also make sure that there are pencils in case they don't have one.
3. Write the time allowed for design, # of trials, and the minimum and maximum distances on the board.
4. Layout all materials (i.e. Lego's, tape strips, rubber bands, etc.). Make sure to cut or tear tape to the 3" length.
5. Set up ramp and mark the distances with masking tape.

Read Through the Eggmobile Design Competition, remember to fill in the time, distances, and # of trials.

ADDITIONAL RULES YOU WILL WANT TO GO OVER AFTER READING SHEET

1. Only one person from a team may come up to the supply table at a time!
2. Once the egg is in their hand you are responsible for it. If it falls you will be charged \$50 Design Bucks.
3. Have the kids fill in their tally sheets, including team name, while building their car.
4. Have the team inspect the eggs to make sure there are no existing cracks.
5. Hand out the eggs and tell them that their time starts now.

WHILE KIDS ARE DESIGNING

1. Go out to each team and see how they are doing. Usually a team will have some of the bubble wrap touching the wheels and this is where you can take the opportunity to tell them about some engineering principles like friction.
2. Give the kids a one minute warning. If you like and if you have time you may let the kids have a pre-test on the test track.

TESTING

1. Have everybody crowd around the test track and watch the testing.
2. Perform the distance and safety tests for one team and then repeat for all other teams.
3. When testing for distance, hold the back wheels at the top of the ramp with your index fingers then let go. The same person should be used for all tests for consistency. Record distance on team's tally sheet
4. Repeat procedure when testing for safety with barrier in place. Look at egg to make sure that it didn't break, crack etc.
5. Have them tally up their score while you start testing the next car.

WRAP-UP

1. Ask the kids which step they thought was the most important, schedule or budget