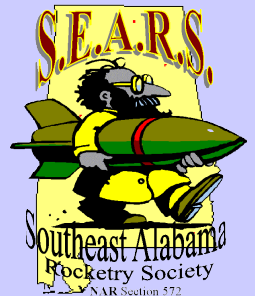


# ***Taking on the Challenge!***

***Team America Rocketry Challenge 2008***



***Presented by  
Southeast Alabama Rocketry Society  
(SEARS)***

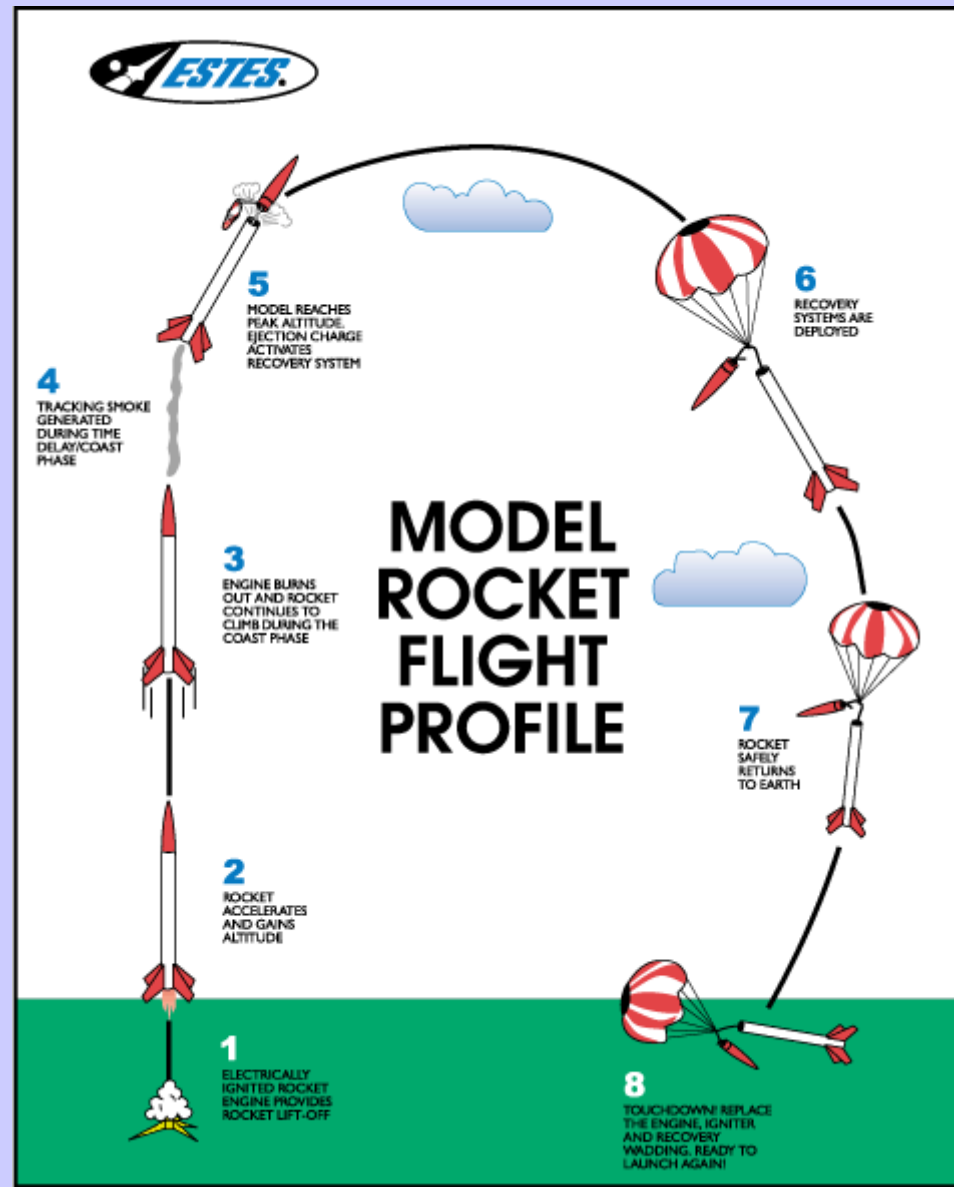


# *What is the TARC Challenge for 2008?*

Design and build a model rocket that carries a payload of two grade A large eggs for a flight duration of 45 seconds, and to an altitude of 750 feet and returns the eggs uncracked.



# Model Rocket Flight



# *Who sponsors TARC?*

- ◆ Sponsors
  - ◆ Aerospace Industries Association (AIA)
  - ◆ National Association of Rocketry (NAR)
- ◆ Partners
  - ◆ American Association of Physics Teachers
  - ◆ NASA
  - ◆ Department of Defense



# *Who can enter TARC?*

- ◆ Open to 7<sup>th</sup> to 12<sup>th</sup> Grade Students
- ◆ A team is 3-15 students
- ◆ Includes schools, scout troops, CAP
- ◆ An organization can have up to three teams
- ◆ Teams must have a teacher or adult sponsor approved by the organization



# TARC 2005 Teams From Our Area



# *What do Team Members Do?*

- ◆ Learn about model rocketry
- ◆ Design your rocket
- ◆ Build your rocket
- ◆ Fly/test your rocket
- ◆ Raise funds
- ◆ Learn to work as a team
- ◆ Travel to finals if you qualify

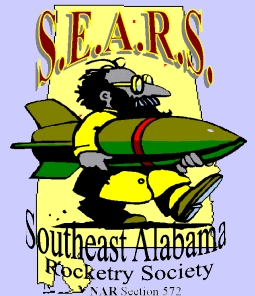


# TARC Activities



# *How Does Your Team Win?*

- ◆ Have a qualification score that is in the top 100 in the nation by April 7th.
- ◆ Attend the Finals in Great Plains VA on May 18th.
- ◆ Have a score at the finals that is in the top ten.
- ◆ \$60,000 pool awarded to students
- ◆ \$10,000 pool awarded to organizations





# *How much money does your team need?*

- ◆ Registration is \$90
- ◆ Altimeter is about \$60
- ◆ Estimate at least \$100 for materials
- ◆ Estimate at least \$100 for motors
- ◆ Travel expenses to finals
- ◆ Teams can have fundraisers and sponsors
- ◆ Costs are spread out over the year
- ◆ Your school may help



# *How does our team get registered for TARC 2008?*

- ◆ Identify your team members and teacher/adult
- ◆ The application is on TARC Web Site
  - ◆ [www.rocketcontest.org](http://www.rocketcontest.org)
- ◆ Register by November 30th (includes \$90 fee)
- ◆ Only the first 750 registrations accepted



# *How does your team get a good start on TARC?*

- ◆ Get Registered!
- ◆ Read the rules on contest website
- ◆ Build some kits and start flying
- ◆ Follow Model Rocket Safety Code
- ◆ Make a plan to raise money for materials and motors
- ◆ Contact a mentor
- ◆ Attend NAR launches
- ◆ Use the web for info and vendors



# *What do TARC Mentors Do?*

- ◆ Give general advice on rocket design and construction
  - ◆ Mentor cannot help design or construct your rocket
- ◆ Encourage the teams!



# *How can SEARS help?*

- ◆ SEARS is Southeast Alabama Rocketry Association
- ◆ Covers SE Alabama, NW Florida and SW Georgia
- ◆ We have TARC Mentors
- ◆ We have monthly launches at a large launch site
- ◆ We can host your qualification flights



# *Samson Alabama Launch Site*



*Green's Grass Farm*



# Where is Samson, AL?



*50 miles west of Dothan AL*



# *Resources on the web*

- ◆ TARC Web Site
  - ◆ [www.rocketcontest.com](http://www.rocketcontest.com)
- ◆ National Association of Rocketry (NAR)
  - ◆ [www.nar.org/](http://www.nar.org/)
- ◆ SEARS Web Site
  - ◆ [www.sears572.com](http://www.sears572.com)
- ◆ Rocketry 101 on Estes Site
  - ◆ [www.esteseducator.com/cfusion/rocketry101.cfm](http://www.esteseducator.com/cfusion/rocketry101.cfm)
- ◆ Info Central
  - ◆ [www.info-central.org/infocentral.shtml](http://www.info-central.org/infocentral.shtml)
- ◆ The Rocketry Form (TRF)
  - ◆ [www.rocketryforum.com/](http://www.rocketryforum.com/)



# *Are you accepting the TARC Challenge?*



*We hope so!  
The SEARS Gang*

