

EXPLORING™

DISCOVER YOUR FUTURE



WELCOME!



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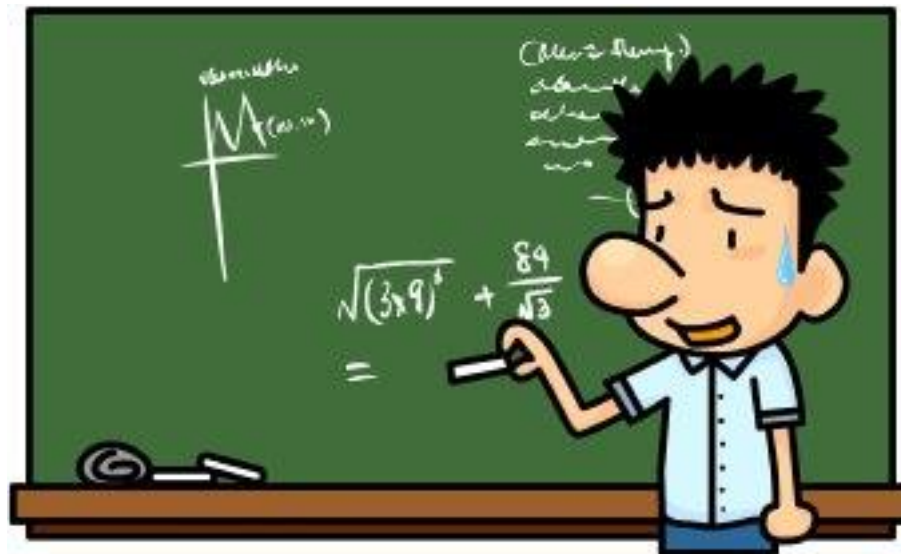
Official TARC Mentor, NAR 79764

TEAM AMERICA ROCKETRY CHALLENGE



WHAT IS TARC?

- ❑ It's a national competition for students in grades 7-12.
- ❑ Your team must design, build and fly a model rocket.
- ❑ The rocket must carry a fragile payload (e.g. eggs).



WHAT IS TARC?

□ The objectives:

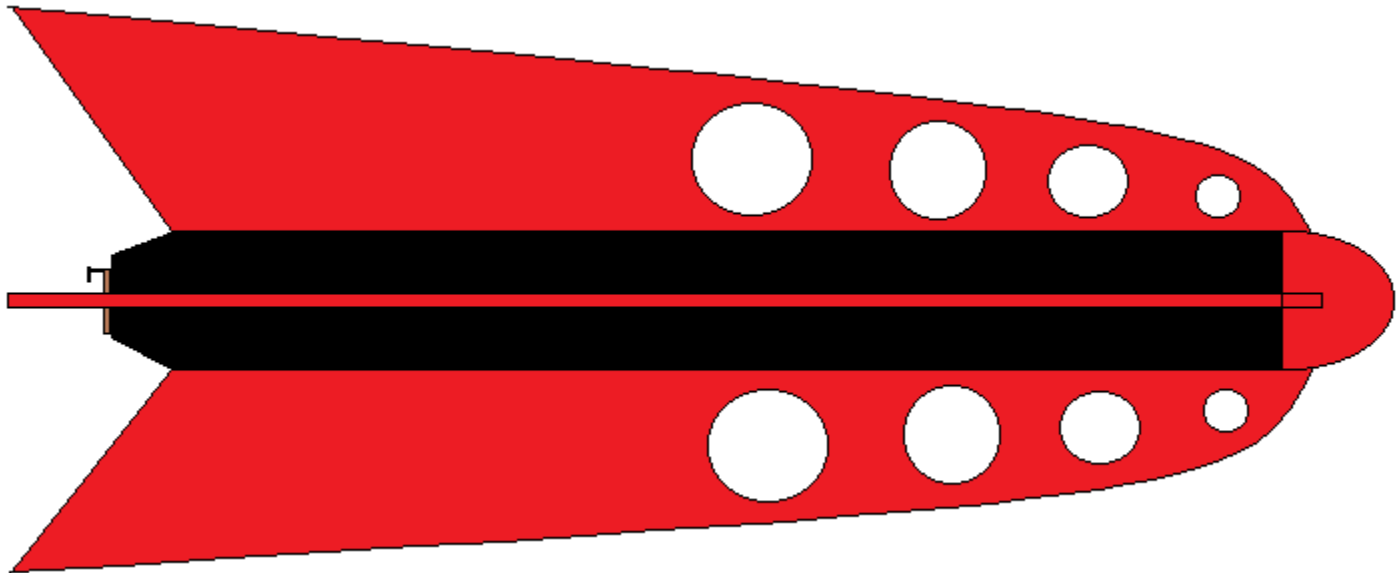
1. Launch rocket to about 800 feet in altitude.
2. Recover it in about 45 seconds.



WHAT IS TARC?

□ The conditions:

1. Rocket must be longer than 650mm (25.6”).
2. Rocket may not weigh more than 650g (22.9 oz.).
3. Cracking the eggs leads to disqualification.
4. Additional conditions may apply.



WHY DO TARC?

- ❑ The team closest to the objectives wins the Challenge.
 1. Monetary prizes add to \$100,000 +
 2. Overall winner team in 2015 received \$20,000 and an all-expenses-paid trip to Europe.
 3. Winner of TARC competes against other countries in Europe.



What is Exploring?

A nonprofit that partners with thousands of businesses and organizations to bring “real-world” career experiences to young men and women through its Exploring programs. Our programs provide an ideal, interactive link between the academic environment and the real world.



What is Exploring?

- Hands-on career education program.
- Young men & women aged 12 (and graduated the 5th grade) through 20.
- Color, race, religion, gender, sexual orientation, ethnic background, economic status, or citizenship is not criteria for participation.



What is Exploring?

- Program is developed by participation organization whose resources match the interests of youth in the community.
- Organization forms a “post” or “club” that is youth-directed.
- Youth elect officers and plan post activities based on organization’s capabilities.



What is Exploring?

- Adult leaders are selected by the participating organization and provide training and guidance to youth leaders.
- Organization owns their post, and local council provides support.



What is Middle School Exploring?

- A new and innovative co-educational Middle School Explorer Club programs for students in 6th, 7th or 8th grades.
- The Clubs offer an array of options. One popular choice features interaction with professionals from across several career fields including STEM. Another option is to focus on only one specific career field such as law enforcement.



Program Career Clusters



Benefits to Students

- Build self-confidence & character
- Leadership & social skills development
- Unique career experiences & internships
- Volunteer service opportunities



Rocketry and Exploring

- ❑ TARC's ultimate objective is to grow a new generation of scientists, engineers and astronauts.
- ❑ It is a career development program for the aerospace field, sponsored by the Aerospace Industries Association.
- ❑ Fits within Exploring's engineering and science Clusters.
- ❑ PPC has partnered with the Radical Rocketeers Club to serve as hosting organization, with further assistance provided by the Garden State Spacemodeling Society.

Rocketry and Exploring

- ❑ Each Explorer group/TARC team may meet up to twice per month, for 1.5 - 2 hours each time.
- ❑ Meetings start at 10:30am. Some meetings will be dedicated to designing and building rockets, other to launching the rockets.
- ❑ First monthly meeting is at RR's facilities in Great Meadows, NJ (visit www.RadicalRocketeers.org). The second monthly meeting is at GSSS's facilities in Bridgewater, NJ (visit www.GSSS.club).

Rocketry and Exploring

- ❑ Each Explorer group/TARC team must have 2-4 adult leaders (e.g., parents) at every meeting. These adult leaders must pass a background check and go through safety training.
- ❑ Each group is responsible for their own operation, budgeting and transportation.
- ❑ Discounted pricing on all materials and supplies has been negotiated with Heavenly Hobbies LLC (visit www.HeavenlyHobbies.com). Phone: (845) 300-1129.

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