Ryan Rocketry Club 2014-2015 Membership Application

NAME: _____ NICKNAME:_____

STUDENT ID#:_____ CLASS (CIRCLE ONE) F S J Sr

ADDRESS: _____

CITY:_____ ST: _____ ZIP:_____

PARENT CONTACT: NAME:_____

RELATION:_____ PHONE:_____

STRONG/WEAK SUBJECTS:_____

EXPERIENCE W/ ROCKETS: (Y / N) _____

ALLERGIES:_____

T-SHIRT SIZE (CIRCLE): YOUTH / ADULT XS S M L XL XXL XXXL

ACKNOWLEDGEMENTS: I, the undersigned, have read and understand the By-Laws of the Ryan Rocketry Club, the NAR Safety Code, and Workshop Safety Rules, and will abide by such as a member of the Club.

SIGN _____ **DATE** _____

(Once complete please print and return the signature pages to the next club meeting)

RYAN ROCKETRY CLUB BY-LAWS

1. The **organization** shall be known at the Ryan Rocketry Club or “Club”.

2. The **purpose** shall be to inform students about all aspects of rocketry, including design, construction, and flight.

3. The Club shall operate in accordance with the National Association of Rocketry (NAR) **Safety** Code, and will fly with the Dallas Area Rocket Society (NAR Section 308). Members will also observe and abide by safety guidelines while using tools during construction activities.

4. **Membership** in the Club is open to all current Ryan High School students. Members are expected to maintain at least a 2.5 GPA, and tutoring within the club is available upon request.

5. **Membership fees** shall be $25.00 per year. This cost will help support costs of parts, engines, and fundraising efforts, is non-refundable, and shall include the purchase of one (1) club t-shirt.

6. **Meetings** shall be held weekly after school from 4:20pm-5:20pm. Members are expected to attend meetings so they may gain full advantage from instruction and support club activities/objectives.

7. Club **logo** shall be a cooperative effort amongst members with Senior Staff having final say on the design and associated text in a given year.

8. **Off-Campus Activities (OCA):** Members will be responsible for getting to/from any OCAs, such as launches or fundraising events in the local area. Transportation to events outside of the local area, national, or international will be discussed when the opportunity arises.

9. The Club shall have several **officer positions**. (A-D below) shall be upper classmen with 1-year experience in the club and have demonstrated abilities suitable to the position. Officers shall be elected at the end of the school year for service the following school year, and may resign the position in writing only. If an officer post becomes available during the year, the remaining officers may appoint a replacement for the balance of the year, with the senior officer breaking tie votes. (A-C) shall be the "Senior Staff" of the Club:
    a. President – Responsible for conducting meetings and signing checks.
    b. Vice-President – Responsible during absence of President, head of recruiting efforts
    c. Treasurer – Responsible for Club finances with school bookkeeper and signing checks
    d. Safety Officer – Responsible for making sure members are safety compliant
    e. Public Affairs Officer (PAO) – Responsible for news, publications, and outreach
    f. Historian – Responsible for documenting Club activities in word and photo

10. **Conflicts** between club members shall be moderated and resolved either by the President or Vice-President. Disciplinary or Academic issues shall be considered for re-instatement by the Senior Staff.

11. **Contests** are open to all club members, however, when signing up for a contest Club members MUST indicate in writing if they are representing the Club or the Ryan High AFJROTC rocketry team.

12. **Discipline issues:** -If at any time a Member of the Club is caught acting in a way that is in violation of student code (lying, cheating, stealing, use or distribution of illegal substances) or acts in a way that intentionally violates the NAR Safety Code or is unsafe around fellow students, they shall be placed on probation from Club activities for a period of four (4) calendar weeks. They may apply for re-admission to the club at that time but are subject to a vote of the Club staff for approval. Two violations shall result in dismissal from the club without refund of dues for the remainder of the school year.

13. **Academic issues:** If a Club member receives an "F" in a class or drops below a 2.5 GPA, they will be placed on Academic Probation from the Club until the next grade reporting period (either Progress Report or Report Card). The member will not be eligible to participate in Club activities during or after school aside from regular meetings. If after 2 grade reporting periods the member still has a "F" or less than 2.5 GPA they shall be placed on Academic Suspension from the club until the end of the next 6 weeks reporting period, at which time their grades will be reviewed for re-admission. During this time they may not participate in ANY Club activities.

14. An **advisor** should be available for the club during activities involving construction and launch-related activities. This would preferably be an adult on the school staff or someone associated with the Dallas Area Rocket Society. Advisor shall support the instruction and development of the Club, but cannot participate in the processes related to the Team America Rocketry Challenge, per TARC rules (see www.rocketcontest.org for more).

15. **Amendments** to the Club By-Laws can be recommended and approved by 3/5s vote of current Club members, with at least 2 of 3 Senior Staff supporting.

Logo for 2013 - 2014

The following image has been approved as the logo for the 2013 - 2014 school year.

NAR Model Rocket Safety Code

Approved March 2009

1. **Materials.** I will use only lightweight, non-metal parts for the nose, body, and fins of my rocket.

2. **Motors.** I will use only certified, commercially made model rocket motors, and will not tamper with these motors or use them for any purposes except those recommended by the manufacturer.

3. **Ignition System.** I will launch my rockets with an electrical launch system and electrical motor igniters. My launch system will have a safety interlock in series with the launch switch, and will use a launch switch that returns to the "off" position when released.

4. **Misfires.** If my rocket does not launch when I press the button of my electrical launch system, I will remove the launcher's safety interlock or disconnect its battery, and will wait 60 seconds after the last launch attempt before allowing anyone to approach the rocket.

5. **Launch Safety.** I will use a countdown before launch, and will ensure that everyone is paying attention and is a safe distance of at least 15 feet away when I launch rockets with D motors or smaller, and 30 feet when I launch larger rockets. If I am uncertain about the safety or stability of an untested rocket, I will check the stability before flight and will fly it only after warning spectators and clearing them away to a safe distance.

6. **Launcher.** I will launch my rocket from a launch rod, tower, or rail that is pointed to within 30 degrees of the vertical to ensure that the rocket flies nearly straight up, and I will use a blast deflector to prevent the motor's exhaust from hitting the ground. To prevent accidental eye injury, I will place launchers so that the end of the launch rod is above eye level or will cap the end of the rod when it is not in use.

NAR Model Rocket Safety Code

Approved March 2009

7. **Size.** My model rocket will not weigh more than 1,500 grams (53 ounces) at liftoff and will not contain more than 125 grams (4.4 ounces) of propellant or 320 N-sec (71.9 pound-seconds) of total impulse.

8. **Flight Safety.** I will not launch my rocket at targets, into clouds, or near airplanes, and will not put any flammable or explosive payload in my rocket.

9. **Launch Site.** I will launch my rocket outdoors, in an open area at least as large as shown in the accompanying table, and in safe weather conditions with wind speeds no greater than 20 miles per hour. I will ensure that there is no dry grass close to the launch pad, and that the launch site does not present risk of grass fires.

10. **Recovery System.** I will use a recovery system such as a streamer or parachute in my rocket so that it returns safely and undamaged and can be flown again, and I will use only flame-resistant or fireproof recovery system wadding in my rocket.

11. **Recovery Safety.** I will not attempt to recover my rocket from power lines, tall trees, or other dangerous places.

LAUNCH SITE DIMENSIONS		
Installed Total Impulse (N-sec)	**Equivalent Motor Type**	**Minimum Site Dimensions (ft.)**
0.00--1.25	1/4A, 1/2A	50
1.26--2.50	A	100
2.51--5.00	B	200
5.01--10.00	C	400
10.01--20.00	D	500
20.01--40.00	E	1,000
40.01--80.00	F	1,000
80.01--160.00	G	1,000
160.01--320.00	Two Gs	1,500

RYAN ROCKETRY CLUB WORKSHOP SAFETY RULES

Purpose: These rules are to help create a safe and secure environment for club members to perform club activities, particularly when using potentially dangerous items it the construction of rockets (knives, adhesives, paint, etc.)

1. There will be **NO HORSEPLAY** when using sharp objects such as hobby knives, razor saws, or scissors. Use caution if a dull blade needs to be changed, and dispose of a used one as advised by the adult mentor. If you are not in the process of using a cutting tool to cut something that is part of the project you are working on, put it down!

2. **ADHESIVES** can be dangerous and cause physical harm. Wood glue is not a threat, as it is water based. Clean up with soap and water, or just rub it off the skin or surface it has come in contact with.

"Super" glue, Cyanoacrylate (CA), and epoxies are to be used in minimal quantity, with gloves, and with a protective membrane on a flat and level surface. Students should wear approved gloves when handling these adhesives and any excess should be disposed of in the trash. **AT NO TIME** should students be intentionally inhaling fumes from these adhesives, as they could cause injury.

If a student gets one of these adhesives on their skin, clothing, or elsewhere, notify a mentor immediately and take action to clean it up with approved materials (paper towels, soap and water, or CA remover, as needed).

3. Spray **PAINT** can be used on model rockets, and probably will at some point. Spray paints (including primer) will only be used in the presence of an adult mentor and outside the building in a safe location. Spray paints will be used as directed on the container and as advised by the adult mentor.

Club member acknowledgement and consent to abide by club safety rules.

I, _____ have read and fully understand the safety rules for the Ryan Rocketry Club. I will abide by them and act in a manner that does not threaten my or other team members' safety. I understand that violation of these rules will result in action from counseling to dismissal from the Club and possible referral to school administration.

Signed: _____ Date: _____