STRIKER AGM™

FLYING MODEL ROCKET ASSEMBLY INSTRUCTIONS

QUEST™

Prod. No. A51002
Skill Level Two

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Things You'll Need To Assemble this Kit:

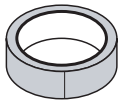
Pencil and Hobby Knife:

White Glue:
Aliphatic Resin glue, such as TITEBOND or ELMER'S CARPENTER'S WOOD GLUE - ELMER'S WHITE SCHOOL GLUE also works but dries slower.

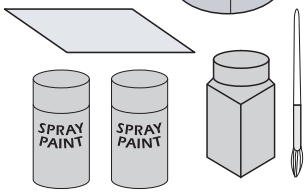
Medium CA Glue:
"CA" is the commonly used name for industrial grades of cyanoacrylate based fast-acting glues. Commonly sold under trade names like **SUPERGLUE** and **KRAZY GLUE.**

Plastic Cement:
Use TESTORS TUBE Plastic Cement, PACTRA LIQUID CEMENT or other comparable brands.

Tape:
Use Scotch Magic Tape or Paper Masking Tape.



Finishing Supplies:
To finish your rocket so that it looks like the one pictured on the front of the package, you will need the following supplies: **Sandpaper** (220 or 320 Grit), **Sanding Sealer** or **Balsa Filler** and a small **Paint Brush** to apply it. Gloss Black, Gloss Gray and Gloss Red **Spray Paint**.

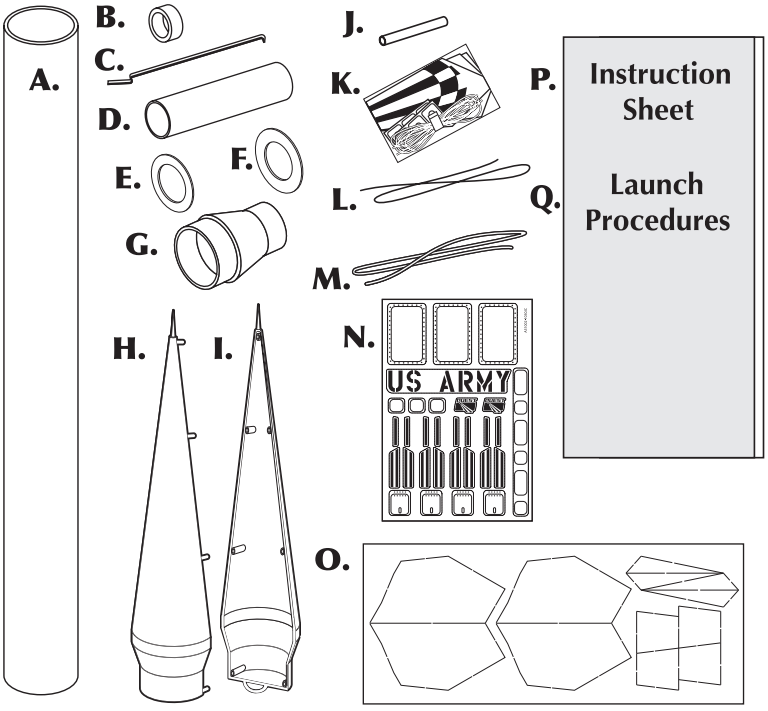


**BEFORE STARTING ASSEMBLY READ THROUGH THESE INSTRUCTIONS.
IT IS BEST TO TEST FIT ALL PARTS BEFORE APPLYING ANY GLUE.
READ AND FOLLOW THE NAR MODEL ROCKET SAFETY CODE.**

PARTS LIST

A.	11503	White Body Tube
B.	14000	Blue Thrust Ring
C.	49000	Motor Clip
D.	10303	Yellow Motor Mount Tube
E.	16001	Die-cut Center Ring
F.	16002	Die-cut Center Ring
G.	21056	Plastic Reducer
H.	20201	Plastic Nose Cone Half Male
I.	20202	Plastic Nose Cone Half Female
J.	10001	Launch Lug
K.	82302	Complete Parachute
L.	50053	Kevlar* Shock Cord
M.	50012	Elastic Shock Cord
N.	A51002-1030	Decal Sheet
O.	A51002-33000	Balsa Fin Sheet
P.	A51002-1010	Instruction Sheet
Q.	90960R2	Launch Procedure Sheet

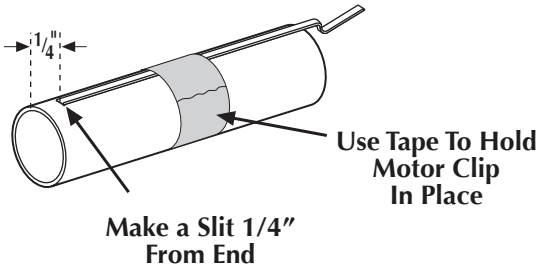
* Kevlar is a registered trademark of Dupont



STEP 1

A. Make a *Slit* for the *Motor Clip* 1/4 inch from the end of the *Motor Mount Tube*.

B. Insert the *Motor Clip* into the *Slit* and tape it in place.



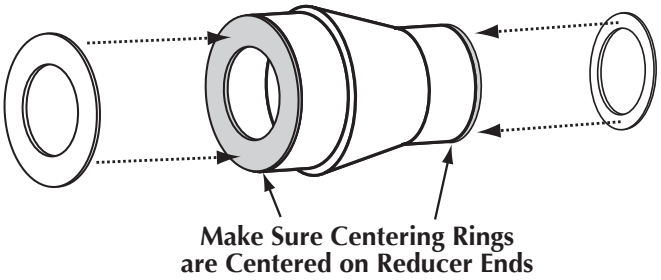
Launch Lug Stand-off Guide

STEP 2

A. Use *CA Glue* to attach the *Die-cut Centering Ring (16001)* to one end of the *Plastic Reducer.*

B. Use *CA Glue* to attach the *Die-cut Centering Ring (16002)* to one end of the *Plastic Reducer.*

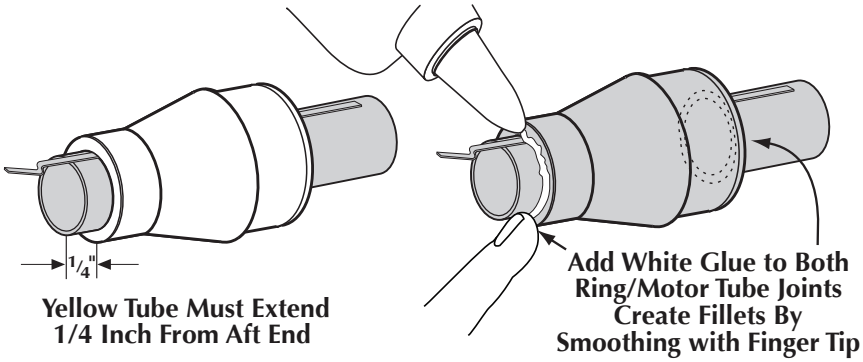
C. Make sure both *Centering Rings* are centered perfectly on *Reducer* ends.



STEP 3

A. Use no *Glue* and slide the *Yellow Motor Tube* into *Assembly*. Leave 1/4 inch of the *Yellow Motor Tube* extending out of the Aft End.

B. Add *Glue Fillets* to both *Ring/Motor Tube* joints.

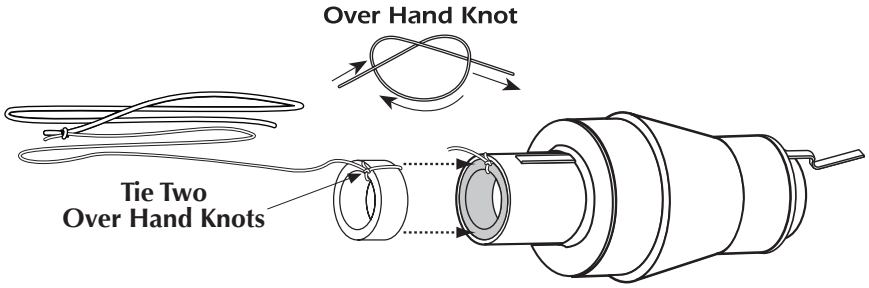


STEP 4

A. Tie the *Yellow Kevlar* and *White Elastic Shock Cords* together.

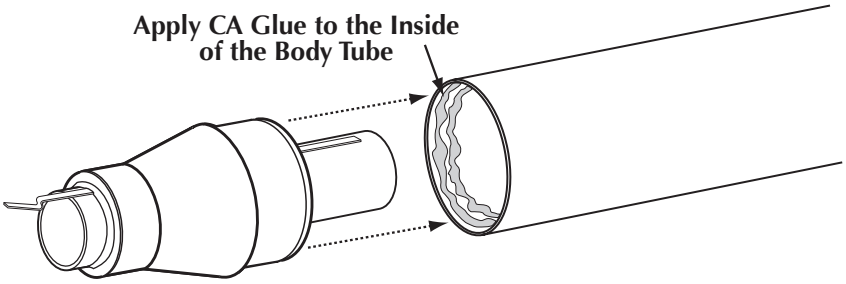
B. Tie the loose end of the *Kevlar* to the *Blue Thrust Ring*.

C. Glue the *Thrust Ring* into the end of the *Motor Mount Tube* with *White Glue.*



STEP 5

A. Use *CA Glue* on the inside of the *White Body Tube* and insert the *Motor Mount Assembly* into the *Tube.*



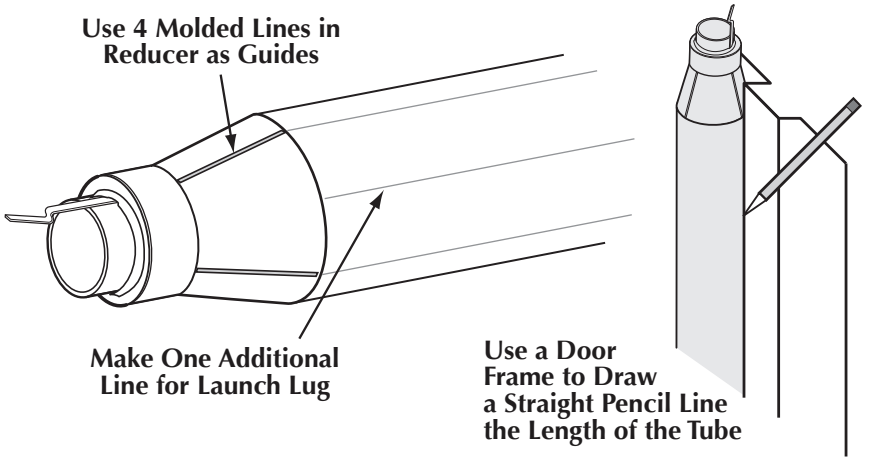
STEP 6

A. There are four distinct molded lines in the *Plastic Reducer.* Use them as a guide to extend four *Fin Lines* down the *Body Tube.*

B. Make an additional line for the *Launch Lug* down the *Body Tube* centered between two of the *Fin Lines.*

C. Make a mark 3.5 inchs from the end of *Tube* on the four *Fin Lines.*

D. Make a mark 7 inchs from the end of *Tube* on the line for the *Launch Lug.*



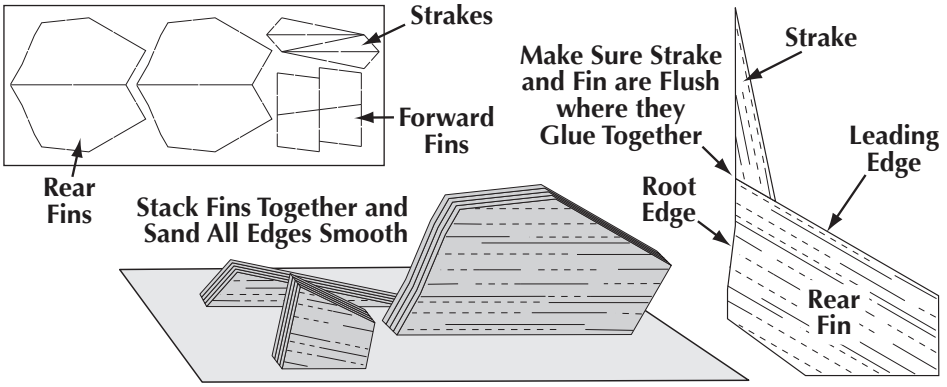
STEP 7

A. Remove *Balsa Fins* from sheet.

B. *Stack* and *Sand* alike parts. DO NOT DISTORT THE SHAPE OF THE REAR FIN. THE ROOT EDGE IS DESIGNED TO FIT AGAINST THE REDUCER PERFECTLY!

C. *Glue Strakes* onto *Leading Edge* of each *Rear Fin* with *White Glue*. Use Wax Paper on a flat surface.

D. Save *Balsa* scrap for use in **STEP 9**.

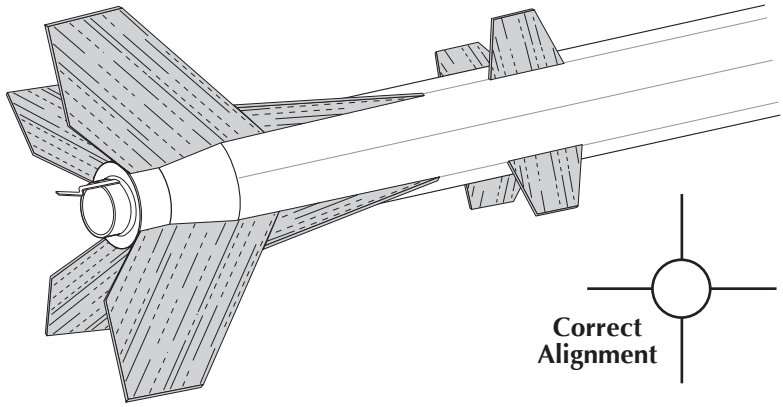


STEP 8

A. After the Rear Fins Glued together in STEP 7 are dry, Glue them in place using CA Glue.

B. Glue Forward Fins in place using White Glue.

C. Create Fillets with White Glue everywhere the Balsa meets the White Body Tube on all 8 Fins.



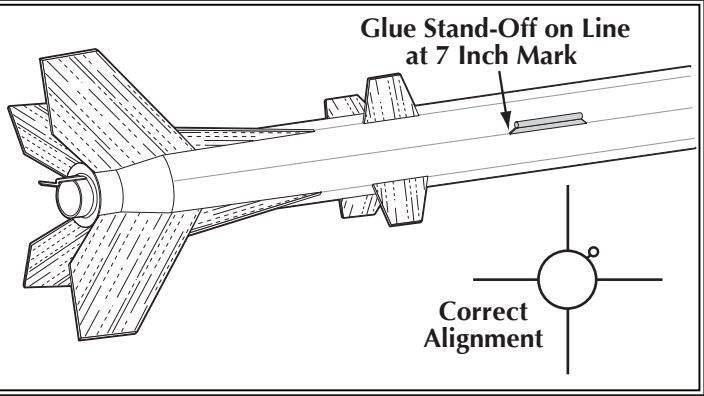
STEP 9

A. Cut out the *Launch Lug Stand-Off Guide* provided on the first page of these instructions. Use it to make a *Launch Lug Stand-Off* by using it as a pattern on the *Balsa Scrap* left over from **STEP 7**.

B. *Glue* the *Launch Lug Stand-Off* to the line extended in **STEP 6** at the 7 inch mark. Be sure the *Launch Lug Stand-Off* is aligned perpendicular to the *Body Tube*.

C. Use *White Glue* to *Glue* the *Launch Lug* to the *Launch Lug Stand-Off*.

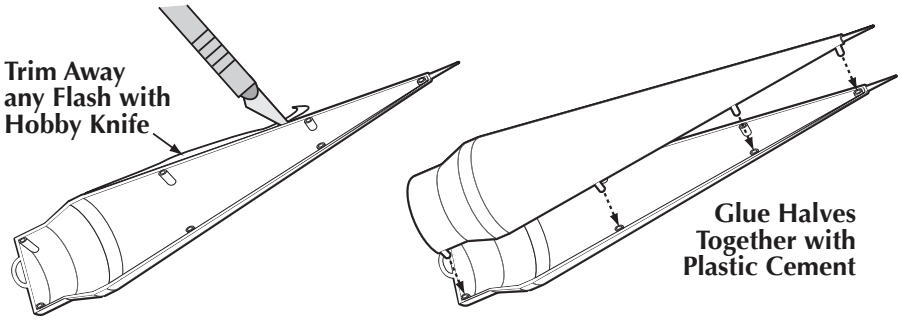
D. Be sure the *Launch Lug* is aligned parallel to the *Body Tube*.



STEP 10

A. Use a *Hobby Knife* to trim any *Flash* from *Plastic Nose Cone Halves*.

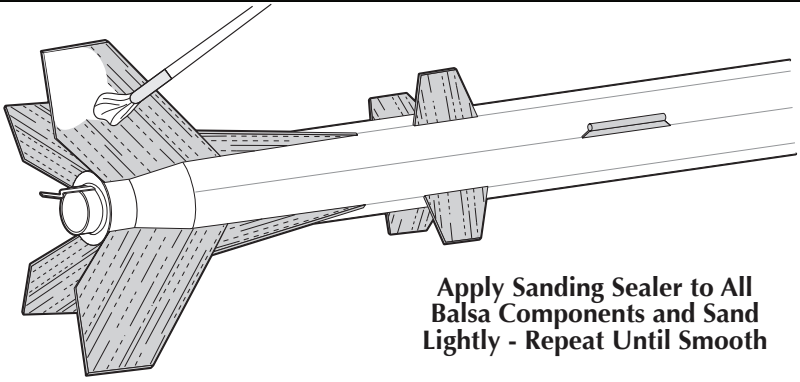
B. Use *Plastic Cement* to *Glue* the *Two Nose Cone Halves* together.



STEP 11

A. Apply *Sanding Sealer* to all *Balsa Fins* and *Launch Lug Stand Off*. When *Sealer* is dry lightly *Sand*.

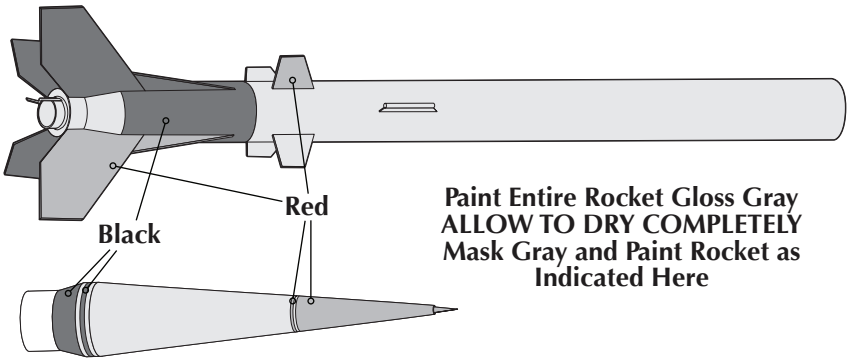
B. Repeat the *Sealing* and *Sanding* process until the surface of each *Fin* is smooth.



STEP 12

A. Paint the entire rocket body and fins with *Gloss Gray Spray Paint*. Follow instructions on the Spray Can for best results. Allow to dry completely.

B. After *Gray Paint* has dried completely, use *Tape* and masking material such as a paper or plastic grocery bag to cover the *Gray* components. Use *Gloss Red* and *Gloss Black* to complete your rocket as indicated. Use *Photograph* on packaging as a guide. Allow paint to dry completely between each color.



Paint Entire Rocket Gloss Gray
ALLOW TO DRY COMPLETELY
Mask Gray and Paint Rocket as Indicated Here

STEP 13

A. Use scissors to cut out the *Decals*.

B. Place *Decals* in lukewarm water. DO NOT PLACE MORE THAN ONE DECAL AT A TIME IN WATER! The *Decals* will curl as they get wet. When they start to uncurl (approx. 20-30 seconds) remove from water and slip from backing into position on rocket. Blot dry with tissue or paper towel.

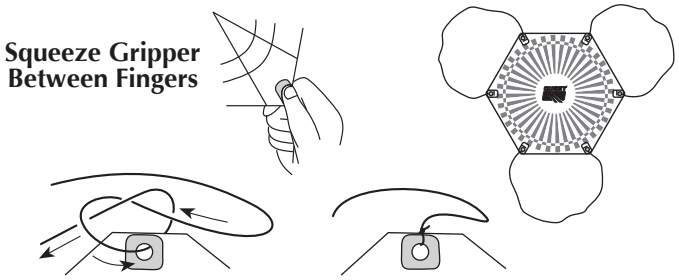
C. Use this photo as a guide to apply each *Decal*.

STEP 14

A. Apply *Gripper Tabs* to *Parachute* so holes in *Gripper Tabs* line up with holes in *Parachute*. Firmly squeeze each *Gripper* and *Parachute* between your fingers.

B. Assemble the *Parachute* by passing the end of a *Shroud Line* through a hole in a *Gripper Tab* and tying *2 Over Hand Knots*. Tie each of the ends of the *Shroud Line* to the *Parachute* through the *Gripper Tab* holes.

C. Assembled *Parachute* should appear as shown.



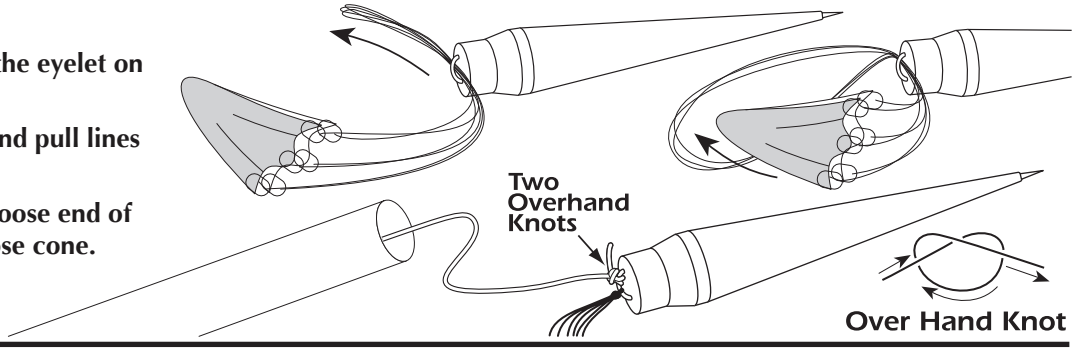
Tie 2 Over Hand Knots Through Each Gripper

STEP 15

A. Pass the shroud line loops through the eyelet on the nose cone.

B. Pass parachute through loop ends and pull lines tightly against the eyelet.

C. Use two overhand knots to tie the loose end of the shock cord onto the base of the nose cone.



FLYING YOUR STRIKER AGM ROCKET

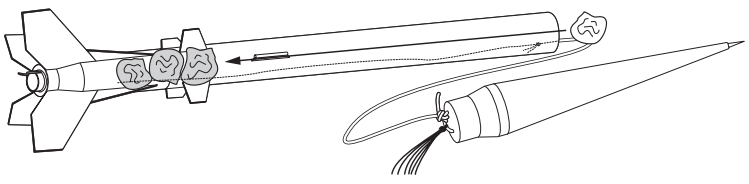
WHAT ELSE YOU WILL NEED

To successfully fly your rocket you will need the following items:

- QUEST Lift Off Launch Pad (No. 7610)
- QUEST Futuristic Launch Controller (No. 7510)
- QUEST Parachute Recovery Wadding (no. 7021)
- QUEST Rocket Motors, Type B6-4, C6-3 or C6-5
- Use a B6-4 Motor for your first flight

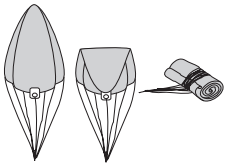
PREPPING YOUR ROCKET FOR FLIGHT

STEP 1 Pull the shock cord all the way out of the body tube. Crumple four sheets of recovery wadding and insert one by one into the body tube making sure that the knot between the Kevlar and white elastic shock cord is on the nose cone side of the wadding. Wadding should fit loosely in the tube but tight enough to form a good seal against the wall of the body tube.



STEP 2

A. Grab the parachute at its center and allow the rocket to hang from it. The weight of the rocket will pull the parachute into several triangular shapes.
B. Gather the triangles together into one flat triangle.
C. Fold the top of the parachute down over itself once.
D. Now continue to roll the parachute over itself and roll the shroud lines around it.



STEP 3

A. Pack the parachute into the body tube. **The parachute must fit loosely into the tube**. If it is a tight fit, remove and re-fold the parachute.

TIP: Lightly dust your parachute with talcum powder or baby powder to keep it from developing a set shape. This technique is especially effective if the weather is hot and humid or very cold.

B. Push the shock cord into the tube and re-fit the nose cone onto the rocket. **Be careful not to catch any of the shock cord between the shoulder of the nose cone and the body tube**

READ AND FOLLOW THE ENCLOSED LAUNCH PROCEDURE SHEET AND THE N.A.R. SAFETY CODE DURING ALL MODEL ROCKETRY ACTIVITIES.