Rocket Flight Check List

A. Complete Motor Base with Cargo Unit

1. Check separation between cargo and motor base (booster). It should be easy to separate but not fall off. Use baby powder to help.
2. Insert motor, make sure it is clipped in, don't forget the spacer, tape around the end, be careful with igniter.
3. Put a little 'dog barf' in the top of the motor mount, on top of the motor ejection charge, use a stick to insert.
4. Baby powder the chutes, fold parachute in loose "z" format, but never wrap shrouds around chuts.
5. Insert chute protector over the motor mount.
6. Insert chutes, snake the shrouds loosely on top of the chutes, Pack shock cords loosely; use baby powder to keep it loose.
7. Close up cargo on motor base.

B. Cargo Unit Setup

1. Put eggs in plastic bag. Insert eggs in nose cone with foam protection.
2. Turn on altimeter. Insert altimeter and holder into cargo unit, use foam pads to keep holder tight. You have **20 seconds** to do this. Do not let the sun shine on the altimeter.
3. Be careful not to trip the altimeter sensor, be sure it has access to air holes.
4. Place nose cone on cargo. Follow alignment marks. Do not push nose cone on sharply because it may trip the altimeter.
5. Shake rocket lightly to be sure nothing rattles around and cargo (eggs) are secured.
6. Listen for altimeter in ready beeping state. If tripped, go back to number 2.
7. Check in, weigh the rocket and record the grams. You may need to weigh the cargo unit separately.

C. Load on Launch Tower

1. WD40 and steel wool launch rod/rail.
2. Load on tower, be sure it is loose and can move up tower.
3. Angle launch rod with the wind, one degree for every mile per hour of wind.
4. Use a plum bob to check the angle and direction.
5. Connect launch power line clips.
6. One last look. Ask a buddy to check.
7. If you think you have a problem or forgot something - **Stop Now.**

D. Launch

1. Clear launch area. Send out recovery team.
2. Check if photographers ready. Check if timers ready.
3. Tell range safety officer OK for launch, signal ready to launch.

E. Recovery

1. Recovery team needs to walk/run to landing area before it lands. **Don't catch.**
2. Carefully pick up cargo unit - **do not remove eggs or altimeter**. Just listen.
3. Don't forget the booster.
4. Take rocket (everything) to officials for evaluation.
5. Remove egg and altimeter with officials watching.